

# **BoS Meeting Minutes of the Programmes offered by the University (2017-22)**

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### School of Engineering & Technology

### Department of Mechanical Engineering

Date: 09/07/2021

#### MINUTES OF BOARD OF STUDIES MEETING held on 09/07/2021

#### Virtual Mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Mechanical Engineering was held on 09/07/2021 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

- 1. Dr. Srinivasa Rao Perla, Global Training Head-Cyient
- 2. Dr.U. Chandrasekhar, WIPRO 3D
- 3. Prof.S.S. Mohaptra, NIT Rourkela
- 4. Dr. A.M Mohanty, PRO VC, CUTM
- 5. Dr. R.C Mohanty, Professor, SOET, Mechanical
- 6. Prof. Prajna Paramita Debata, HOD, Mechanical
- 7. Mr. Hari Krishna, Final year student (placed in Byjus through campus recruitment)
- 8. Saubhagya Ranjan Parida, Alumni (Working in Federal Bank)
- 9. Abhisek Chinara, Alumni (Working in Tata Motors)
- 10. Mr. Rama Mohan, Parent

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Mechanical Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

#### Agenda 1: The minutes of the last meeting of the BoS held on 11/07/2020 were confirmed.

# Agenda 2: Discussion and approval of any revision required in the Curriculum of B.Tech, Mechanical Engg. Basket 4 syllabus

The HoD, Mechanical Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2021-22.

- Manufacturing Process-Process planning and Heat Treatment (2-1-0) (CUTM1079) is very heavy and easily split into courses of 3 credit each
- Fluid Mechanics with Finite Volume Method to be refined and made into two separate
- Applied Ergonomics could be merged in product design course where DFM is dealt.
- Smart Track is a very good suggestion and should be implemented.



- List of new courses added (Annexure A.)
- The briefing comprised of credits distributions, courses and baskets layouts, and new inclusions such as the Smart Basket (Basket-III) Interdisciplinary domains etc.
- Discussion on modification of syllabus of Basket-4,5
- The domain course should be taught in practice and project mode.

The Board approved the changes suggested in the Manufacturing Process. List of existing courses where syllabus was changed in (*Annexure B*)

### Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure C)

The HoD, Department of Mechanical Engg. extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

Dean, SoET

Dean, SOET

Dean, Academics

Dean - Academic

HoD, Mechanical Engineering

Centurion University of Technology & Management
Odisha

Centurion University of Technology & Management
Dhubaneswar, Khurda, Odisha-752000





# List of new courses added

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Computer Aided Drafting	Skill and Employability	3
2	Product Design and Development	Skill and Employability	2
3	Reverse Engineering and Rapid Prototype	Skill and Employability	4
4	Product Life Cycle Management	Skill and Employability	2
5	Manufacturing Process	Skill and Employability	3
6	Material in product design and development	Skill and Employability	2
7	Computer Aided Engineering	Skill and Employability	3
8	Quality Assurance	Skill and Employability	2
9	Applied Ergonomics	Skill and Employability	2
10	Computer Aided Manufacturing	Skill and Employability	2
11	CNC Programming & CNC Machining	Skill and Employability	2
12	Design of Tools, Jigs and Fixtures	Skill and Employability	3
13	Advance Metrology	Skill and Employability	2
14	Thermodynamics	Skill and Employability	3
15	Fluid Mechanics with Finite Volume Method	Skill and Employability	3
16	Hydraulic Machinery	Skill and Employability	2
17	Theory of Machines	Skill and Employability	3
18	Heat Transfer with FDM/FVM	Skill and Employability	3
19	Theories of Failure Using Finite Element Analysis	Skill and Employability	4
20	Optimisation Techniques	Skill and Employability	2
21	Programming in Java(Same as Java Technologies)	Skill and Employability	3
22	Database Management Systems	Skill and Employability	3



### Annexure-B

List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1	Manufacturing Process	1	Course e was changed with little modification in content.



# Annexure - C

# List of Skill courses (Basket) approved

Sl. No	Course Title	Credit	(T+P+P)
1	3D Game Art	4	0+3+1
2	Drug Design using Biovia Discovery Studio	4	0+3+1
3	Opthalmic Lens and spectacle manufacturing Techniques	4	0+3+1
4	Medical Diagnostic Techniques	1	0+2+1
5	Introduction to Aquaponics	4	0+3+1
6	Polyhouse Automation	$\frac{4}{4}$	0+3+1
7	Development of Processor (Shakti)	4	0+3+1
8	Spectroscopy Spectroscopy	4	0+3+1
9	Extraction Technologies		0+3+1
10	Gamified DIY kits using Lasers	4	0+3+1
11	VR Assets Development	4	0+3+1
12	GIS and Remote Sensing: Applications in	4	0+3+1
	Participatory Natural Resource Management	4	0+3+1
13	GIS and Remote Sensing: Application Development	4	0+3+1
14	3D Modelling and Printing	4	0+3+1
15	Brew Master	4	0+3+1
16	3D Game Art	4	0+3+1
17	Drug Design using Biovia Discovery Studio	4	0+3+1
18	Opthalmic Lens and spectacle manufacturing Techniques	4	0+3+1
19	Medical Diagnostic Techniques_	4	0+3+1
20	Introduction to Aquaponics	4	0+3+1
21	Polyhouse Automation	4	0+3+1
22	Development of Processor (Shakti)	4	0+3+1
23	Spectroscopy	4	0+3+1
24	Extraction Technologies	4	0+3+1
25	Gamified DIY kits using Lasers	4	0+3+1
26	VR Assets Development	4	0+3+1
27	GIS and Remote Sensing: Applications in Participatory Natural Resource Management	4	0+3+1
	GIS and Remote Sensing: Application Development	4	0+3+1



29	3D Modelling and Printing	4	0+3+1
30	Brew Master	4	0+3+1

List of value added courses approved

Sl. No	Course Title	Hrs. of input
1	Ethical Hacking	30
2	Clinical Practice	30
3	Financial Literacy	30
4	MATLAB	30
5	MS Excel Basics	30
6	Pharmaceutical Dry-Lab Techniques	30
7	Research Methodology and IPR	30
8	Steps for Career Plan	30
9	TABLEAU	30
10	Technical Writing	30
11	Waste to Wealth	30
12	Web Development	30
13	Yoga and Meditation	30
14	Health and Lifestyle	30
15	Life Skills and Moral Value Education	30
16	Ansys	30
17	Video Making for Youtubers	30



# School of Engineering & Technology

# Department of Mechanical Engineering

Time: 11.00 a.m.

Date: 09.07.2021

Venue: Board Room, CUTM, Bhubaneswar

# **Board of Studies Meeting**

### **Attendance Sheet**

CI No	Name of the Member	Designation	Signature
<b>Sl.No.</b> 1	Prof. S.S. Mohaptra	Professor, NIT Rourkela	Attended Online
2	Dr. A.M Mohanty	PRO VC,CUTM	Attended Online
3	Dr. P.K. Mohanty	Dean Academics	Attended Online
4	Dr. R.C Mohanty	Professor,SOET,Mechanical	Attended Online
5	Prof.Prajna Paramita Debata	HOD, Mechanical	Attended Online
6	Mr. Hari Krishna	Final year student (placed in Byjus through campus recruitment)	Attended Online
7	Saubhagya Ranjan Parida	Alumni(Working in Federal Bank )	Attended Online
8	Abhisek Chinara	Alumni(Working in Tata Motors)	Attended Online
9	Mr. Rama Mohan	Parent	Attended Online

Dean, SoET

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Idisha

Dean, Academics

Dean - Academic

Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



#### School of Engineering & Technology

**Department of Computer Science and Engineering** 

Date: 09.07.2021

#### MINUTES OF BOARD OF STUDIES MEETING held on 09.07.2021

Venue: Online

Time: 10.00 a.m.

The Board of Studies (BoS) meeting of Department of Computer Science and Engineering was held on 09.07.2021 at 10 a.m. in online mode. The following members were present:

- 1. Prof. (Dr.) Radhakant Padhi, Honorary Provost, Centurion University of Technology and Management
- 2. Dr. Sujata Chakravarty, Associate. Prof., HOD, CSE
- 3. Prof. Jagannath Padhi, Director, Centurion University of Technology and Management
- 4. Prof. (Dr.) Ashish Ranjan Dash, Associate Dean, SoET, Centurion University of Technology and Management
- 5. Mr. Pramod Saini, Co-founder of Icalibrator
- 6. Ms. Aruna Saini, Co-founder of Icalibrator
- 7. Mr. Suvendu Kumar Nayak, Assistant Professor, CUTM, BBSR
- 8. Anshit Ransingh, Alumni(Working as project executive in CUTM)
- 9. Rhythm Paul, Student, CUTM, BBSR

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Computer Science Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 11/07/2020 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Computer Science Engg.

 The HoD, Computer Science and Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2021-22.



- With reference to the suggestions of the members present it was decided no major changes required in the syllabus only the skill related to different subjects need to be mentioned.
- Two changes were suggested
  - 1. Replacing "OOPs with C++ programming " by "Programming in C"
  - 2. Renaming the subject "Data structures using C++" by "Data Structures "and all the implementation will be done by C programing language.(Annexure 1)

### Agenda 3: Inclusion of MCA curriculum

A new curriculum for MCA program is introduced and approved by the Board members.

# Agenda 4: Inclusion of courses on life skills and value addition

Various courses offered by University in the areas of life skills and value addition for the students overall improvement and well being are approved by board members. (Annex 2 and Annex 3)

The HoD, Department of Computer Science and Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET

Dean, Academics

HoD, Computer Science & Engineering

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Centurion University of Technology & ManaGenturion University of Technology & Management

Odisha

HOD CSE

Centurion Institute of Technology



### Annexure 1

### List of new courses added

SI. No	Course Title	Type(Skill/Employability/Entrepreneurshi	Credit
1	Programming in C	Skill And Employability	4
2	Data Structures	Skill And Employability	4



### Annexure 2

# List of Skill courses approved in the Year 2021-22

S No	Course Name	Course Code	Credit
1	3D Game Art	CUTM3121	4
2	Drug Design using Biovia Discovery Studio	CUTM3122	4
3	Opthalmic Lens and spectacle manufacturing Techniques	CUTM3123	4
4	Medical Diagnostic Techniques_	CUTM3124	4
5	Introduction to Aquaponics	CUTM3125	4
6	Polyhouse Automation	CUTM3126	4
7	Development of Processor (Shakti)	CUTM3127	4
8	Spectroscopy	CUTM3128	4
9	Extraction Technologies	CUTM3129	4
10	Gamified DIY kits using Lasers	CUTM3130	4
11	VR Assets Development	CUTM3131	4
12	GIS and Remote Sensing: Applications in Participatory Natural Resource Management	CUTM3133	4
13	GIS and Remote Sensing: Application Development	CUTM3134	4
14	3D Modelling and Printing	CUTM3135	4
15	Brew Master	CUTM3142	4



# • List of Value Added Courses offered in the Year 2021-22

S No	Name of the value added courses (with 30 or more contact hours)offered	Course Code	Duratio n of course
2 1/10			20.44
1	Ethical Hacking	CUVA4013	30 Hours
2	Clinical Practice	CUVA4002	30 Hours
3	Financial Literacy	CUVA4038	30 Hours
4	MATLAB	CUVA4035	30 Hours
5	MS Excel Basics	CUVA4010	30 Hours
6	Pharmaceutical Dry-Lab Techniques	CUVA4043	30 Hours
7	Research Methodology and IPR	CUVA4009	30 Hours
8	Steps for Career Plan	CUVA4018	30 Hours
9	TABLEAU ·	CUVA4014	30 Hours
10	Technical Writing	CUVA4023	30 Hours
11	Waste to Wealth	CUVA4029	30 Hours
12	Web Development	CUVA4012	30 Hours
13	Yoga and Meditation	CUVA4021	30 Hours
14	Health and Lifestyle	CUVA4020	30 Hours
15	Life Skills and Moral Value Education	CUVA4030	30 Hours
16	Ansys	CUVA4044	30 Hour
17	Video Making for Youtubers	CUVA4016	30 Hour



### School of Engineering & Technology

### Department of Computer Science and Engineering

Time: 10.00 a.m.

Date: 09.07.2021

Venue: Online

### **Board of Studies Meeting**

#### **Attendance Sheet**

### List of Members present

SI. No.	Name	Organization	Signatur e
1	Prof. (Dr.) Radhakant Padhi	Honorary Provost, Centurion University of	Attended
		Technology and Management	online
2	Prof. (Dr.) Jharna Majumdar	Prof. of Eminenc, Centurion University of	Attended
		Technology and Management	online
3	Prof. Jagannath Padhi	Director, Centurion University of Technology and	Attended
		Management	online
4	Prof. (Dr.) Prasant Kumar	Dean, SoET, Centurion University of Technology and	Attended
	Mohanty	Management	online
5	Prof. (Dr.) Ashish Ranjan Dash	Associate Dean, SoET, Centurion University of	Attended
		Technology and Management	online
6	Prof. (Dr.) Sujata Chakravarty	HOD, CSE, Centurion University of Technology and	Attended
		Management	online
7.	Mr. Pramod Saini	Co-founder of Icalibrator	Attended
			online
8.	Ms. Aruna Saini	Co-founder of Icalibrator	Attended
			online
9.	Prof. Uma Valluri	Ex- Prof., IIIT SriCity	Attended
			online
10.	Mr. Suvendu Kumar Nayak	Assistant Professor, CUTM, BBSR	Attended
	Sibultiplication of Administration (April 1970) and the Company of State (Company of	Michigan Company of the Company of t	online
11.	Anshit Ransingh	Alumni(Working as project executive in CUTM)	Attended
)1. 3805 (F	Spring and spring and a second spring and a se		online
12.	Rhythm Paul	Student, CUTM, BBSR	Attended
			online

Dean, Academics **Dean Academics** 

Centurion University of Technology & Management

Odisha



# School of Engineering & Technology

# **Department of Civil Engineering**

Date: 20/07/2021

# MINUTES OF BOARD OF STUDIES MEETING held on 20/07/2021

Venue: Virtual Mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 20/07/2021 in virtual mode. The following are the members:

- 1. Dr Sachikanta Nanda, Associate Professor, SRMIST, Chennai, TN
- 2. Dr. Shantiswaroop Sahoo, Associate Professor, Dept. of Geology, Utkal University
- 3 Prof. Prafulla Kumar Panda, Internal Expert
- 4 Prof. Kamal Kumar Barik, Internal Expert

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 11/07/2020 were confirmed.

Agenda 2: Credits distributions, courses and baskets layouts, and new inclusions of Smart Basket (Basket-III) Interdisciplinary domains.

The HoD, Civil Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2021-22.

- The Smart stack to be delivered by people from the industry and/or enabling internal faculty members to deliver the industry aligned courses.
- The strategy of keeping at least twenty percent online delivery of courses in the curriculum was appreciated by everyone.
- It was suggested to have more MOUs with academia and industry for effective rollout.
- Everyone appreciated having the "Job Readiness" course of Basket-II as compulsory across branches and also the delivery plan of the course.



- Present final year student welcomed Job readiness component and domain course content.
- The briefing comprised of credits distributions, courses and baskets layouts, and new inclusions such as the Smart Basket (Basket-III) Interdisciplinary domains etc.
- There is no modification of syllabus of Basket- 4,5
- The domain course should be taught in practice and project mode.

# Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure A)

The HoD, Department of Civil Engg. extended sincere thanks to all members of the Board.

Dean, Academics

The meeting ended with a vote of thanks to the Chair.

Dean, SoET

Dean - Academic Centurion University of Technology & Management Centurion University of Technology & Management HoD, Civil HOD

Dept. of Civil Engineering Centurion University of Technology & Management, BBSR





# List of Skill courses

Sl. No	Course Title	Credit	(T+P+P)
1 1 1 1 1	3D Game Art	4	0+3+1
2	Drug Design using Biovia Discovery	4	0+3+1
3	Studio Opthalmic Lens and spectacle manufacturing Techniques	4	0+3+1
4	Medical Diagnostic Techniques_	4	0+3+1
5	Introduction to Aquaponics	4	0+3+1
	Polyhouse Automation	4	0+3+1
6	Development of Processor (Shakti)	4	0+3+1
1		4	0+3+1
8	Spectroscopy Extraction Technologies	4	0+3+1
	Gamified DIY kits using Lasers	4	0+3+1
10	VR Assets Development	4	0+3+1
11 12	GIS and Remote Sensing: Applications in Participatory Natural Resource		0+3+1
13	Management GIS and Remote Sensing: Application Development	4	0+3+1

## List of value added courses

Sl.	Course Title	Hrs. of input
No	1D Management	30
1	Natural Resource Management	30
2	Research Methodology and IPR	30
3	Urban Gardens using Hydroponics	30
4	Introduction to Python	30
5	MATLAB	
6	Waste to Wealth	30
7	Technical Writing	30
8	Organic Farming	30
9	Disaster Management	30
10	Ethical Hacking	30
$\frac{10}{11}$	Web Development	30
12	Food & Nutrition	30
13	Clinical Practice	30
14	Innovation Management	30
15	Financial Literacy	30
16	Yoga and Meditation	30
17	Steps for Career Plan	30
18	MS Excel Basics	30
19	Quality Analysis	30
	Ethical Writing Practice	30
20		30
21	Ansys	30
22	Video Making for Youtubers	



# School of Engineering & Technology

# Department of Civil Engineering

Time: 11.00 a.m.

Date: 20/07/2021

Venue: Virtual Mode

# **Board of Studies Meeting Attendance Sheet**

Sl. No	Name of the BoS Member(Internal Faculty and External Resource)	Designation	Signature  Attended Online
1	Dr. Sachikanta Nanda	Associate Professor, SRMIST, Chennai, TN	Attended Offinic
2	Dr. Santiswaroop Sahoo	Associate Professor, Dept. of Geology, Utkal University	Attended Online
3	Dr Kamal Kumar Barik	Professor, Civil Engineering, CUTM	Attended Online
4	Dr Prafulla Ku. Panda	Professor, Civil Engineering, CUTM	Attended Online

Dean, SoET

Dean, SOET

Centurion University of Testinology & Management

Odisha

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Centurion University of Technology & Management Contact Rhurda Od sha-752050



#### School of Management

Date: 15.07.2021

## MINUTES OF BOARD OF STUDIES MEETING held on 09.07.2021

Venue: Online Zoom Platform

Time: 3.00 pm

The Board of Studies (BoS) meeting of School of Management was held on 01.07.2021 at 3.00 p.m. in the online zoom platform. The following members were participated:

- 1. Dr. Anita Patra, Registrar, CUTM
- 2. Dr. Prasanta Kumar Mohanty, Dean, Academics, CUTM
- 3. Dr. Arup Barman, Professor, Department of Business Administration, Assam University, Silchar
- 4. Mr. Aditya Sapru, Managing Director, Neumck Strategy and Advisory, Bangalore
- 5. Dr. R. Divakar, Center for Agrarian Studies, NIRD&PR, Hyderabad
- 6. Mr. Hemant Pamarthy, Independent Consultant and Former Director Ujjivan MicroFinance
- 7. Dr. Subhendu Mishra, PGP Coordinator, SoM, CUTM
- 8. Dr. Girija Nandini, PGP Coordinator, SoM, CUTM
- 9. Dr. Bibhunandini Das, UGP Coordinator, SoM, CUTM
- 10. Dr. Pramod Kumar Patjoshi, B. Com Program Coordinator, SoM, CUTM
- 11. Dr. Umakanta Nayak, Dean, SoM, CUTM

The Chairperson, CUTM welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean, SoM presented the achievements and improvements of the School in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

# Agenda 1: The minutes of the last meeting of the BoS held on 11.07.2020 were confirmed.

# Agenda 2: Discussion and approval on revision required in the Curriculum of MBA Program

 The Dean, SoM presented the MBA curriculum based on the feedback and suggestions made by the various stakeholders. Board discussed the curriculum throughly and approved the existing syllabus without any changes for the academic year 2021-22

# Agenda 3: Discussion and approval on revision required in the Curriculum of MBA – RUDM & ABM Program

MBA – RUDM & ABM curriculum was presented based on the feedback and suggestions made
by the various stakeholders. Board discussed the curriculum throughly and approved the
existing syllabus without changes for the academic year Year 2021-22.

# Agenda 4: Discussion and approval on revision required in the Curriculum of BBA program

 BBA syllabus was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the existing syllabus without changes for the academic year Year 2021-22.

Agenda 5: Discussion and approval on revision required in the Curriculum of B.Com program



- B.Com syllabus revision was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the following changes to curriculum to be implemented from the Academic Year 2020-21 (Annexure-I).
  - o New courses were incorporated in baskets after thorough discussion.

## Agenda 6: Inclusion of courses on life skills and value addition

Various courses were presented to be offered by the University in the areas of life skills and value addition for the overall improvement and well being of students. The same was agreed upon and approved by the Board members. (Annexure-II)

The Dean, SoM extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean

School of Management Centurion University, Odisha Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



### Annexure-I

## List of new courses added in B.Com:

Sl. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
1	Business organization and Management	Employability & Entrepreneurship	4
2	Goods and Services Tax (GST) and Custom Law	Employability & Entrepreneurship	6
3	Banking and Insurance	Employability & Entrepreneurship	6
4	Advance Managerial Accounting	Employability & Entrepreneurship	6
5	Commercial Banking and ALM	Employability	6
6	Security Analysis and Portfolio Management	Employability & Entrepreneurship	6
7	Project Appraisal and Financing	Employability & Entrepreneurship	6
8	Financial Institutions, Markets and Services	Employability & Entrepreneurship	6
9	Investment Banking and Financial Services	Employability	6
10	Environmental Science	Employability and Skill	4
11	Job Readiness	Employability	6





Skill Courses approved by university

Sl. No.	I. No. Course Title	
1	3D Game Art	4
2	Drug Design using Biovia Discovery Studio	4
3	Opthalmic Lens and spectacle manufacturing Techniques	4
4	Medical Diagnostic Techniques_	4
5	Introduction to Aquaponics	4
6	Polyhouse Automation	4
7	Development of Processor (Shakti)	4
8	Spectroscopy	
9	Extraction Technologies	4
10	Gamified DIY kits using Lasers	4
11	VR Assets Development	4
12	GIS and Remote Sensing: Applications in Participatory Natural	
13	GIS and Remote Sensing: Application Development	
14	3D Modelling and Printing	
15	Brew Master	

Value Added courses approved by university

	Course Title	Credit
1	Ethical Hacking	30 Hours
2	Clinical Practice	30 Hours
3	Financial Literacy	30 Hours
4	MATLAB	30 Hours
5	MS Excel Basics	30 Hours
6	Pharmaceutical Dry-Lab Techniques	30 Hours
7	Research Methodology and IPR	30 Hours
8	Steps for Career Plan	30 Hours
9	TABLEAU	30 Hours
10	Technical Writing	30 Hours
11	Waste to Wealth	30 Hours
12	Web Development	30 Hours
13	Yoga and Meditation	30 Hours
14	Health and Lifestyle	30 Hours
15	Life Skills and Moral Value Education	30 Hours
16	Ansys	30 Hours
17	Video Making for Youtubers	30 Hours



# School of Management

Time: 3.00 p.m.

Date: 09.07.2021

Venue: Online Zoom Platform

# **Board of Studies Meeting**

## **Attendance Sheet**

	Cales Mombar	Designation	Signature
l.No 1	Name of the Member Dr. Anita Patra	Registrar, CUTM	Attended Online
2	Dr. Prasanta Kumar Mohanty	Dean, Academics, CUTM	Attended Online
3	Dr. Arup Barman	Professor, Department of Business Administration, Assam University, Silchar	Attended Online
4.	Mr. Aditya Sapru	Managing Director, Neumck Strategy and Advisory, Bangalore	Attended Online
5	Dr. R. Divakar	Center for Agrarian Studies, NIRD&PR, Hyderabad	Attended Online
6	Mr. Hemant Pamarthy	Independent Consultant and Former Director Ujjivan MicroFinance	Attended Online
7	Dr. Subhendu Mishra	PGP Coordinator, SoM, CUTM	Attended Online
8	Dr. Girija Nandini	PGP Coordinator, SoM, CUTM	Attended Online
9	Dr. Bibhunandini Das	UGP Coordinator, SoM, CUTM	Attended Online
10	Dr. Pramod Kumar Patjoshi	B. Com Program Coordinator, SoM, CUTM	Attended Online
11	Dr. Umakanta Nayak	Dean, SoM, CUTM	Attended Online

Dean, SoM

Dean

School of Management Centurion University, Odisha,

Dean Academics Dean - Academic

Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



#### School of Forensic Sciences

Date: 14.07.2021

#### MINUTES OF BOARD OF STUDIES MEETING held on 09.07.2021

Venue: Board room, BBSR

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Forensic Sciences was held on 9.07.2021 at 11 a.m. at Board Room, BBSR Campus. The following members were present:

- 1. Dr. Gurudutta Pattnaik, Principal, SoPLS
- 2. Dr. Amulyaratna Behera, Assosciate Professor, SoFS & SoPLS
- 3. Mr. Mahesh Patnaik, Director, HVET
- 4. Ms. Varsha Singh, Assistant Professor, SoFS
- 5. Dr. Aruna Kumar Swain, Assistant Director, SFSL Rasulgarh
- 6. Mr. Gyanranjan Panigrahy, Assistant Professor, BJB Autonomus College

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dr. Gurudutta Pattnaik, **Principal, SoPLS and SoFS** presented acheivements and improvements of the department in the areas of academics and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 11.07.2020 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of M.Sc. Forensic Science, M.Sc. Cyber Security & Digital Forensics and B.Sc. Forensic Science.

- The Principal, SoFS gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders.
- The Board reviewed the syllabus of B.Sc. and M.sc. Programs and decided that no changes were required in the syllabus.

#### Agenda 3: Inclusion of courses on life skills and value addition

• It was suggested that students take up various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure-I)

Dr. Gurudutta Pattnaik, Principal, SoFS & SoPLS extended his sincere thanks to all members of the Board. The meeting ended with a vote of thanks to the Chair.

Principal, SoPLS & SoFS

Centurion University of Technology & Management

Bhubaneswar, Khurda. Odisha-752050



### ANNEXURE-I

# Skill courses approved by BOS and to be offered in 2021-22

SI.	Course Title	Credit
No.		
1	3D Game Art	4
2	Drug Design using Biovia Discovery Studio	4
3	Opthalmic Lens and spectacle manufacturing Techniques	4
4	Medical Diagnostic Techniques_	4
5	Introduction to Aquaponics	4
6	Polyhouse Automation	4
7	Development of Processor (Shakti)	4
8	Spectroscopy	4
9	Extraction Technologies	4
10	Gamified DIY kits using Lasers	4
11	VR Assets Development	4
12	GIS and Remote Sensing: Applications in Participatory Natural Resource Management	4
13	GIS and Remote Sensing: Application Development	
14	3D Modelling and Printing	
15	Brew Master	4

# • Value added courses approved by BOS in 2021-22

SI. No.	Course title	Duration of course
1	Ethical Hacking	30 Hours
2	Clinical Practice	30 Hours
3	Financial Literacy	30 Hours
4	MATLAB	30 Hours
5	MS Excel Basics	30 Hours
6	Pharmaceutical Dry-Lab Techniques	30 Hours
7	Research Methodology and IPR	30 Hours
8	Steps for Career Plan	30 Hours
9	TABLEAU	30 Hours
10	Technical Writing	30 Hours
11	Waste to Wealth	30 Hours
12	Web Development	30 Hours
13	Yoga and Meditation	30 Hours
14	Health and Lifestyle	30 Hours
15	Life Skills and Moral Value Education	30 Hours
16	Ansys	30 Hours
17	Video Making for Youtubers	30 Hours



# **School of Forensic Sciences**

Time: 11.00 a.m.

Date: 09/07/2021

Venue: Virtual Mode

## **Board of Studies Meeting**

#### **Attendance Sheet**

Sl. No.	Name of the BOS Member(Internal Faculty and External Resource)	Designation	Signature
1	Dr. Gurudutta Pattnaik	Principal, SoPLS & SoFS, CUTM	Attended Online
2	Mr. Mahesh Patnaik	Director, SoPLS and SoFS, CUTM	Attended Online
3	Mr. Gyanaranjan Panigrahy	Assistant Professor, BJB autonomous college.	Attended Online
4	Dr. Amulyaratna Behera	Assosciate Professor, SoFS & SoPLS	Attended Online
5	Dr. Aruna Kumar Swain	Assistant Director, SFSL Rasulgarh	Attended Online
6	Ms. Varsha Singh	Assistant Professor, School of Forensic Sciences	Attended Online

Principal, SoPLS and SoFS

Dean Academic

Centurion University of Technology & Management Ehubaneswar, Khurda. Odisha-752050



## School of Agricultural and Bio-Engineering

Department of Agricultural Engineering

Date: 11/07/2020

## MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

#### Virtual Mode

Time: 12.00 p.m.

The Board of Studies (BoS) meeting of Department of Agricultural Engineering was held on 11/07/2020 at 12 p.m. in online mode (due to the continuing Covid-19 Pandemic). The following members are present during the meeting.

- 1. Dr. Prasanta Kumar Mohanty, Dean Academics, CUTM
- 2. Dr. Sivala Kumar, Dean SoABE, CUTM
- 3. Dr. Khalid Khan, Retd Dean, OUAT
- 4. Mr. Bharat Agrawal, CEO, ABS KRISHI UDYOG, Odisha
- 5. Dr. Gitanjali Behera, HOD, Agricultural Engineering, CUTM
- 6. Dr. Prasanta Kumar Choudhury, Head Dairy Technology, SoABE, CUTM
- 7. Dr. Bhisma Narayan Rath, Head Phytopharmaceuticals, SoABE, CUTM
- 8. Dr. S. P. Nanda, Dean Administration, MSSSoA, CUTM
- 9. Dr. Devendra Reddy, Dean Academics, MSSSoA, CUTM

Dean SoABE have given a presentation on course structure of Agriculture Engineering. There was a thoroughly discussion on the syllabus of Agricultural Engineering and tefollowing feedback was suggested by the Experts.

The following agenda items were taken up subsequently:

# Agenda 1: The minutes of the last meeting of the BoS held on 22/06/2019 were confirmed.

# Agenda 2: Revision of Curriculum for the programme B. Tech AG

- It was discussed and decided to follow the CBCS structure of 5 Basket systems of Syllabus of School of Engineering & Technology in the B. Tech Agriculture programme.
- Dr. Khalid Khan: A lot of emphasis has been given to Foundation course which will help the foundation knowledge building of Agricultural Engineering students. Now Agricultural engineering is going to play a vital role for post-COVID scenario. The curriculum designed by the Centurion University will surely help students for preparing for the future. The new syllabus contains all of core courses and foundation courses. One core agricultural engineering course is missing in Basket-4.B that is Post-harvest engineering of cereal, pulses and oil seeds which should be a compulsory course for students doing graduation in agricultural Engineering. Other courses like Engg. Properties of Agricultural Produce, Agricultural Structures & Environmental Control which involves so many components will be difficult to complete the course within 1-0-1 credit hour. Or else, the course has



been designed as per academic and industry's needs. Dean SoABE clarified the experts that the Course titled Post-harvest engineering of cereal, pulses and oil seeds is included in the domain course. Also, the courses like Engg. Properties of Agricultural Produce, Agricultural Structures & Environmental Control can be completed in 1-0-1 credit as the session plan has been designed in courseware as per the time allotment and will be justify all components present in the syllabus.

• Industry Expert: The department have taken up everything in the course syllabus to graduate a best student from the University. The student should be exposed to more field visit and industrial visit, so that the outcome will be best. Dean SoABE explained that we have already taking our students to field and industry visit to have a better practical understanding of the subjects.

# Agenda 3: Discussion on modification of syllabus of Basket- 4, 5

The Board approved the changes suggested in the core courses. List of new courses is given in Annexure A and existing courses where syllabus was changed in (*Annexure B*)

# Agenda 4: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure C)

The Dean, SoABE, extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoABE

...Lh

Dean, Academics

Dean - Academic

Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050 Gitanjali

HoD, Agricultural Engineering



### Annexure-A

#### List of new courses added

Sl. No	Course Title	Type(Skill/Employab ility/Entrepreneurshi p	Credit
1	Differential Equations and Laplace Transformation	Skill	3
2	Linear Algebra & Vector Calculus	Skill	3
3	Complex Analysis, Numerical Methods	Skill	3
4	Discrete Mathematics	Skill	3
5	Probability & Statistics	Skill	3
6	Mechanics for Engineers	Skill	3
7	Optics and Optical Fibres	Skill	3
8	Applied Analytical Chemistry	Skill	3
9	Applied Engineering Materials	Skill	3
10	Environmental Studies	Entrepreneurship	2
11	Optimisation Techniques	Employability	2
12	Engineering Economics and Costing	Entrepreneurship	3
13	Project Management	Entrepreneurship	3
14	Gender, Human Rights and Ethics	Employability	3
15	Climate Change, Sustainability and Organisation	Employability	3
16	Job readiness	Skill	6
17	Industrial IOT and Automation	Employability	6
18	Data Analysis and Visualisation using Python	Entrepreneurship	4
19	Machine Learning using Python	Entrepreneurship	4
20	Robotic automation with ROS and C++	Employability	4
21	Design Thinking	Employability	2
22	System Integration with DYMOLA	Employability	2
23	Smart Engineering Project (G2M)	Employability	3
24	Theory of failure analysis using FPA	Employability	4
25	Computer Aided Engineering	Employability	3
26	Theory of Machine	Employability	3
27	Heat Transfer with FVM	Entrepreneurship	3
28	Fluid Mechanics with FVM	Skill	3
29	Hydraulic machinery	Skill	2
-	Thermodynamics	Employability and skill development	3
31	Electrical Machines Operation and Control	Employability and skill development	4
32	Digital Measurement & Instrumentation	Employability	3



33	Optimisation Techniques	Skill	2
34	Geotechnical Engg.	Employability	3
35	Design of structures	Skill	4
36	Digital Signal & Image Processing	Skill	3
37	Quantity Estimation and Costing	Employability	3
38	Sensor, Actuators and Robot Operating Systems	Skill	4
39	Farm Machinery Design	Employability	3
40	Piloting a Drone	Employability	3
41	PLM using Dassault Tools	Skill	3
42	Testing of Farm Machinery	Employability	3
43	Project and internship	Skill	10
44	Rainwater Harvesting and Artificial Recharge	Employability	3
45	Integrated watershed management	Employability	3
46	Sustainable Watershed	Employability	3
47	R programming in watershed hydrology	Skill	3
48	Modelling and Simulation of Watershed Processes	Employability	3
49	Geo-spatial application in watershed management	Employability	3
50	Project and internship	Employability	10
51	Processing Technology of Cereals and Millets	Employability	3
52	Processing Technology of Legumes and Oilseeds	Skill	3
53	Processing Technology of Fruits, Vegetables, Spices and Condiments	Skill	3
54	Product Development and Packaging Technologies	Skill	3
55	Food Standards and Regulations and HACCP Systems	Employability	3
56	Sensory Evaluation and Nutritional Labelling of Foods	Skill	3
57	AELP Linked Project and Internship	Employability	11



# Annexure-B

# List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1	Post-Harvest Engineering of Horticultural Crops	1	Credits modified
2	Principles of Agronomy	1	Aligned with Fundamentals of Agronomy
3	Principles of Soil Science	1	Aligned with Fundamentals of Soil Science
4	Principles of Horticultural Crops and Plant Protection	1	Aligned with Fundamentals of Horticulture
5	Soil and Water Conservation Engineering and Water Harvesting and Soil Conservation Structures	2	The both course was merged into Soil-Water Conservation Engineering and Structure, the credit was modified to 4 credits



### Annexure-C

# List of Skill courses

Sl. No	Course Title	Credit	(T+P+P)
1	Introduction to Quantum Computing	4	0+3+1
2	Organic Farming	4	0+3+1
3	Mushroom Farming	4	0+3+1
4	Hydroponics Technology	4	0+3+1
5	Poultry Farming	4	0+3+1
6	Dairy Farming	4	0+3+1
7	Vermi composting Farming	4	0+3+1
8	Transformer Manufacturing, Repairing and Maintenance	4	0+3+1
9	Electrical Installation	4	0+3+1
10	Repair and Maintenance of Home Appliances	4	0+3+1
11	Refrigeration and air conditioning	4	0+3+1
12	Super critical Co2 plant operation	4	0+3+1
13	Business Plan Preparation	4	0+3+1
14	Composite fabrication practice	4	0+3+1
15	Powder coating practice	4	0+3+1
16	Farm appliances operation	4	0+3+1
17	Bio fertilizers preparation	4	0+3+1
18	PCB designing & fabrication	4	0+3+1
19	Introduction to Block Chain Technology	4	0+3+1
20	Introduction to Nutraceuticals	4	0+3+1
21	Introduction to NLP	4	0+3+1
22	Introduction to Computational Biology	4	0+3+1
23	Product Life Cycle Management through Gate process	4	0+3+1
24	New material development with Biovia	4	0+3+1
25	Spectral image processing using Python	4	0+3+1
26	Satellite data processing	4	0+3+1
27	Working with Graphene and carbon fibre	4	0+3+1
28	Adobe Tools and Illustrations	4	0+3+1
29	Digital Painting	4	0+3+1
30	Computer Installation and Maintenance	4	0+3+1



# List of Domain courses

Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ fisheries/ biological sciences

Group B: All other engineering/physical and mathematical science/vocational or skills

Group C: Pharmacy and allied Health

Group D: Management & media and communication

Sl. No.	Name of the Domain	Credit	Category	Year of introduction	
1	Advance Video Processing, Computer Vision and Machine Learning		A/B/D	2020	
2	Aerial Survey and Remote Sensing Applications	18 A/B 202		2020	
3	Agri Business Management	23	A/B/D	2020	
4	Architectural and Structural Design	20	A/B	2020	
5	Business Analytics	21 A/B/D 2020		2020	
6	Chip Design and Fabrication using VLSI		В	2020	
7	Commodity and Food Storage	29	A/B/D	2020	
8	Communication Systems	18	В	2020	
9	Composite Design and Manufacturing	24	A/B	2020	
10	Computational Fluid Dynamics	20	A/B	2020	
11	Cyber Security 24		В	2020	
12	Dairy Processing and Development	28	A/B	2020	
13	Fish Processing Technology	29	A/B 2020		
14	Food Processing	29	A/B/D	2020	
15	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020	
16	Go-To-Market	22	A/B/D	2020	
17	Health Care Assistancy	25	A/B	2020	
18	Manufacturing Execution System	18	В	2020	
19	Nutraceuticals	29	A/C	2020	
20	Protected Horticulture	29	A/B	2020	

Centurion UNIVERSITY	

21	Renewable Energy Applications	22	A/B	2020	
22	Smart Agriculture	29	A/B	2020	
23	Smart Farm Machinery	28	A/B	2020	
24	Soil and Water Conservation through Watershed	28	A/B	2020	

### List of value added courses

Sl. No	Course Title	Hrs. of input	
1	Natural Resource Management	30	
2	Research Methodology and IPR	30	
3	Urban Gardens using Hydroponics	30	
4	Introduction to Python	30	
5	MATLAB	30	
6	Waste to Wealth	30	
7	Technical Writing	30	
8	Organic Farming	30	
9	Disaster Management	30	
10	Ethical Hacking	30 30 30	
11	Web Development		
12	Food & Nutrition		
13	Clinical Practice	30	
14	Innovation Management	30	
15	Financial Literacy	30	
16	Yoga and Meditation	30	
17	Steps for Career Plan	30	
18	MS Excel Basics	30	
19	Quality Analysis	30	
20	Ethical Writing Practice	30	
21	Ansys	30	
22	Video Making for Youtubers	30	



### School of Agricultural & Bio-Engineering

# Department of Agricultural Engineering

Time: 12.00 p.m.

Date: 11/07/2020

Venue: Board Room, CUTM, Bhubaneswar

### Board of Studies Meeting Attendance Sheet

SI. No.	Name of the BOS Member(Internal Faculty and External Resource)	Organization	Signature
1	Dr. Supriya Pattanaik	CUTM	Attended Online
2	Dr. Anita Patra	CUTM	Attended Online
3	Dr. P.K. Mohanty	Dean, Academics	Attended Online
4	Dr. Sivala Kumar	Dean, SOABE	Attended Online
5	Dr. Khalid Khan	Retd. Dean, CAET, OUAT	Attended Online
6	Mr Bharat Agarwal	CEO, ABS KRISHI UDYOG, Odisha	Attended Online
7	Dr. Gitanjali Behera	CUTM	Attended Online
8	Dr. Prasant Kumar Choudhury	CUTM	Attended Online
9	Dr. SP Nanda	CUTM	Attended Online
10	Dr. Devendra Reddy	CUTM	Attended Online
11	Mr. Bhisma Narayan Rath	CUTM	Attended Online

Dean, SoABE

Dean, Academics Dean - Academic

Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



# School of Applied Sciences Department of Physics

Date: 11.07.2020

#### MINUTES OF BOARD OF STUDIES MEETING held on 11.07.2020

Venue: Conducted in online mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Physics was conducted in online mode on **11.07.2020** at 11 a.m. The following are the board members:

- 1. Dr. P. K. Jain, Scientist -G, Center Head for Carbon materials division of ARCI, HYD, External expert
- 2. Dr. J K Rath, Director, Mechem Private Ltd, Bhubaneswar, External expert
- 3. Dr. Debadhyana Behera, Dept. of Physics, Ravenshaw University, External expert.
- 4. Prof. Dipankar Bhattacharyay, Dean SoAS.
- 5. Prof. Mohammed Siddique, Associate Dean-SoAS
- 6. Dr. Tapan Dash, HoD, Department of Physics, CUTM BBSR
- 7. Dr. Subrata Sarangi, Professor, Dept of Physics, UCTM, BBSR
- 8. Ms. Sushree Subhadarsi Bhole, MSc Alumni
- 9. Few M.Sc and B.Sc students of CUTM.

At the outset, Dean SoAS welcomed the invited (external) experts from industry and academia and addressed all the participants. HE outlined the broad contours of academic developments with respect to emerging research and skill integration areas and pointed out how the University has aligned its curricula keeping in view these developments. He also outlined how the University examination system is being reformed aligning it with the current trends and evolving methods of pedagogy and academic delivery. The steps being taken to execute all academic programs of the University in Covid-19 conditions were also pointed out by him.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30.06.2019 were confirmed.

Agenda 2: Revision of Curriculum for the programme B.Sc. Physics and M.Sc. Physics.

 Based on the feedback received on curriculum outlining the suggestions made by the various stakeholders, it was suggested that the revised curriculum for B.Sc. and M.Sc. programmes is to be implemented from the academic year 2020-21.



- The detailed course outline and Syllabus of Department of Physics was presented by Prof. Mohammed Siddique, Associate Dean, SoAS.
- The external experts (industrial and academic) appreciated the general approach of the University dividing the curriculum into Core, Domain and Skill Courses and noted with satisfaction, the syllabi being upto-date and with due stress on practice and skill.
- They also noted with satisfaction that the syllabi of all BSc core courses was aligned to the UGC prescribed curriculum. It was also suggested that a BSc level, the foundation (or core) courses with basic concepts should be taught well including appropriate proportions of theory, practice, projects. Advanced topics like Graphene, Nano-materials, etc may be included as electives and at introductory level only.
- The experts also appreciated the advanced and focused nature of the MSc Core courses. Inclusion of advanced Materials Science topics such as Graphene, Composite Materials etc. was highly appreciated. Inclusion of Internship components into the MSc curriculum was also strongly suggested.
- The Board of study members recommended and approved the syllabus for both B.Sc. and M.Sc. programs (Annexure-1) to be taught in the upcoming semesters.

### Agenda 3: : Regarding domain courses

• It was decided that students will take the domain courses offered by the University. Out of the different category of Domain courses Group B category is for Physics students.

(Annexure-2)

### Agenda 4:: Regarding skills and value added courses

It was suggested that students will take the skill and value added courses offered by the University. The same was approved by the Board members. (Annexure-3 &4)

The HoD, Department of Physics. extended his sincere thanks to all members of the Board.

The meeting was adjourned with Vote of Thanks by the Registrar Prof. Anita Patra. She thanked all the external members present in the meeting for sparing their valuable time from their busy schedule and make it successful.

Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



### Annexure-1

## List of new courses approved

## B.Sc. Physics

SI. No	Course Title	Type(Skill/Employability /Entrepreneurship	Credit
1	Mathematical Physics-I	Skill	6
2 .	Mechanics	Skill	6
3	Thermal Physics	Employability & Skill	6
4	Waves and Optics	Employability & Skill	6
5	Mathematical Physics-II	Skill	6
6	Electricity and Magnetism	Employability & Skill	6
7	Analog System and Application	Employability & Skill	6
8	Mathematical Physics-III	Skill	6
9	Elements of Modern Physics	Employability & Skill	6
10	Digital Systems and Applications	Employability & Skill	6
11	Quantum Mechanics and Applications	Employability & Skill	6
12	Solid State Physics	Employability & Skill	6
13	Electromagnetic Theory	Skill	6
14	Statistical Mechanics	Skill	6

## M.Sc. Physics

SI. No	Course Title	Type(Skill/Employabilit y/Entrepreneurship	Credit
1	Energy storage materials	Employability	4
2	Bio and bimimetic nano materials	Employability	4
3	Photovoltaic technology and nanocatalysts	Employability	4
4	Advanced characterization techniques	Skill	4
5	Smart and electronic materials	Skill	4
6	Corrosion and advanced coating application	Employability	4
7	Synthesis and application of nano composites	Skill & Employability	4
8	Material behavior of nanostructures	Skill	4
9	Emerging materials	Employability	4
10	Synthesis routes of nanomaterials	Skill	4
11	Computational materials science	Skill	4
12	Plasma technology	Employability	4
13	Essentials of nanomaterials	Skill	4
14	Advanced quantum mechanics	Skill	4
15	Physics of solids and semiconductors	Skill	4
16	Laser technology	Skill	4



#### Annexure-2

Domain Courses approved by the University 2020-21.

	Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ fisheries/ biological sciences					
	Group B: All other engineering/physical and mathematical science/vocational or skills					
	Group C: Pharmacy and allied Health					
	Group D: Management & media and communicatio	n				
SI. No.	Name of the Domain	Credit	Category	Year of introduction		
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D	2020		
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020		
3	Agri Business Management	23	A/B/D	2020		
4	Architectural and Structural Design	20	A/B	2020		
5	Business Analytics	21	A/B/D	2020		
6	Chip Design and Fabrication using VLSI	18	В	2020		
7	Commodity and Food Storage	29	A/B/D	2020		
8	Communication Systems	18	В	2020		
9	Composite Design and Manufacturing	24	A/B	2020		
10	Computational Fluid Dynamics	20	A/B	2020		
11	Cyber Security	24	В	2020		
12	Dairy Processing and Development	28	A/B	2020		
13	Fish Processing Technology	29	A/B	2020		
14	Food Processing	29	A/B/D	2020		
15	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020		
16	Go-To-Market	22	A/B/D	2020		
17	Health Care Assistancy	25	A/B	2020		
18	Manufacturing Execution System	18	В	2020		
19	Nutraceuticals	29	A/C	2020		
20	Protected Horticulture	29	A/B	2020		
21	Renewable Energy Applications	22	A/B	2020		
22	Smart Agriculture	29	A/B	2020		
23	Smart Farm Machinery	28	A/B	2020		
24	Soil and Water Conservation through Watershed	28	A/B	2020		



## Skill Courses approved by the university in 2020-21.

SI. No.	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical CO <sub>2</sub> plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	4
16	Farm appliances operation	4
17	Bio fertilizers preparation	4
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
21	Introduction to NLP	4
22	Introduction to Computational Biology	4
23	Product Life Cycle Management through Gate process	4
24	New material development with Biovia	4
25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	4
29	Digital Painting	4
30	Computer Installation and Maintenance	4

### Annexure-4

Value Added courses offered by the university in 2020-21.

	Course Title	Credit
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours



4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours

# School of Applied Sciences Department of Physics

Time: 11.00 a.m.

Date: 11.07.2020

Venue: Conducted in online mode

# Board of Studies Meeting Attendance Sheet

SI.	Name of the Member	Designation	Signature	
No				



1	Dr. P. K. Jain	Scientist -G, Center Head for Carbon materials division of ARCI, HYD	Attended Online
2	Dr. J K Rath	Director, Mechem Private Ltd, Bhubaneswar	Attended Online
3	Dr. Debadhyana Behera	Dept. of Physics, Revenshaw University	Attended Online
4	Prof. Dipankar Bhattacharyay	Dean – SoAS, Centurion University of Technology and Management	Attended Online
5	Prof. Mohammed Siddique	Associate Dean- SoAS, Centurion University of Technology and Management	Attended Online
6	Dr. Tapan Dash	HoD- Dept of Physics- SoAS,Centurion University of Technology and Management	Attended Online
7	Dr. Subrata Sarangi	Professor, Dept of Physics- SoAS, Centurion University of Technology and Management	Attended Online
8	Sushree Subhadarsi Bhole	MSc Alumnus, Centurion University of Technology and Management	Attended Online
9	Sarita Nayak	MSc Alumnus, Centurion University of Technology and Management	Attended Online
10	Debabrata Mishra	MSc student (Continuing) Centurion University of Technology and Management	Attended Online
11	Nishikanta Mishra	MSc student (Continuing) Centurion University of Technology and Management	Attended Online
12	BapuramVenkateswar Samantaray	MSc student (Continuing) Centurion University of Technology and Management	Attended Online
13	Sulipta Das	MSc Alumnus, Centurion University of Technology and Management	Attended Online
14	Sanjay Kumar Harichandan	MSc Alumnus, Centurion University of Technology and Management	Attended Online
15	Priyabadini Biswal	MSc Alumnus, Centurion University of Technology and Management	Attended Online
16	Alisha Dalai	MSc Alumnus, Centurion University of Technology and Management	Attended Online
17	Monalisa B D Subham	BSc Alumnus, Centurion University of Technology and Management	Attended Online
18	Susmita Rani Pradhan	BSc Student (Continuing) Centurion University of Technology and Management	Attended Online
19	Jyotir Jagadananda Sahoo	BSc student (Continuing) Centurion University of Technology and Management	Attended Online
20	Sadia Masih	BSc Alumnus, Centurion University of Technology and Management	Attended Online
21	Saumya Sarthak Nayak	BSc Alumnus, Centurion University of Technology and Management	Attended Online
22	Ayush Kumar Sahu	BSc student (Continuing) Centurion University of Technology and Management	Attended Online
23	Soumya Sonali kar	BSc student (Continuing)	Attended Online



		Centurion University of Technology and Management	
24	Amit Kumar Pradhan	BSc student (Continuing) Centurion University of Technology and Management	Attended Online

Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



### School of Engineering & Technology

### Department of Electrical & Electronics Engineering

Date: 11.07.2020

### MINUTES OF BOARD OF STUDIES MEETING held on 11.07,2020

Venue: Virtual Mode

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of EFE was held on 11.07.2020 at 11 a.m. in the Room No.-104, CUTM Bhubaneswar. The following are the Board members:

- 1. Prof. (Dr.) Radhakant Padhi, Honorary Provost, CUTM
- 2. Prof. (Dr.) Jharna Majumdar, Prof. of Eminence, CUTM
- 3. Prof. Jagannath Padhi, Director, CUTM
- 4. Prof. (Dr.) Prasant Kumar Mohanty, Dean, SoET, CUTM
- 5. Prof. (Dr.) Ashish Ranjan Dash, Associate Dean, CUTM
- 6. Prof. (Dr.) Sudhansu Kumar Samal, HOD, EEE, CUTM
- 7. Prof. (Dr.) P. K. Hota, Professor, EE, VSSUT, Burla
- 8. Mr. P. K. Pradhan, Ex- Director (Commercial), GRIDCO; Ex-CEO, WESCO

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of EEE presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

### Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019 were confirmed.

### Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, EEE.

The HoD, EEE gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2018-19.

- 1. Renaming of subjects from all the baskets were done as per industry demand
- 2. All the course contents were changed by giving more importance to software simulations which are useful for doing research in higher education.
- 3. Faculties were asked to complete various online courses offered from NPTEL, UDEMY, Coursera etc. to enhance their knowledge to teach the new restructured courses.
- 4. The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. List of new courses added in Annexure A.
- 5. The Board approved the changes suggested in the Distributed Generation & Microgrid, Power System Protection as per the latest Software and technology being used by the industry. List of existing courses where syllabus was revised in (Annexure B)



Discussion and approval on any revision required in the Curriculum of M.Tech, Power System & Control.

As there was a complete revision of the syllabus of M.Tech program in Power system & control in previous academic session, No change was suggested.

## Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure C)

## Agenda 4:

Basket 3 syllabus got completely changed as per present industrial requirement. More emphasis was given on practice and project and less importance on theory content. All circuit branch faculties were asked to teach these advanced subjects.

The HoD, Department of EEE extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET

Dean, SOET

Centurion University of Technology & Manager

Dean, Academics
Dean - Academic

Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050

EEE Department





#### List of new courses added

Sl. No.	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Electromagnetic Field Theory and Transmission Line	Skill development	3
2	Network Analysis	Employability	3
3	Energy Production & Transmission	Skill development	3
4	Substation Switch gear & Protection	Skill development	4
5	System Modeling and Control	Skill development	4
6	Electrical Machines Operation and Control	Skill development	4
7	Industrial Power Electronics	Skill development	4
8	Digital Measurement and Instrumentation	Skill development	3
9	Basic Electrical Engineering	Skill development	2
10	Introduction to Industrial Automation	Skill development	1
11	Advanced Programming & Control Blocks of PLC	Skill development	3



12	Control & Signal Wiring of PLC	Skill development	2
13	SCADA based advanced features	Skill development	2
14	SCADA & PLC based sequential control	Skill development	1
15	Human Machine Interface	Skill development	3
16	OPC server base data fetching & control	Skill development	2
17	Project	Skill development	6
18	Internship	Skill development	4
19	Introduction, Power Scenario, Power Quality & Fault clearance	Skill development	2
20	Switchyard & substation Networks	Skill development	3
21	Protection scheme & Switchgear	Skill development	3
22	Cable system & Testing	Skill development	3
23	Power Markets	Employability	1
24	Grid Safety	Skill development	2
25	Transformer Manufacturing	Skill development	6
26	Project	Skill development	4



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27	Materials for Renewable Energy applications	Skill development	2
28	Renewable Energy Technology for Industrial Process	Skill development	3
29	Micro-grid Design & Implementation	Skill development	2
30	Hybrid Renewable Energy Systems	Skill development	3
31	Solar Off-grid Entrepreneur	Skill development	2
32	Project	Skill development	6
33	Internship	Skill development	4
34	Soft Computing Techniques - I	Skill development	2
35	Electrical Circuit Drawing (Using Auto CAD)	Skill development	2
36	Linear Integrated Circuits & Application	Employability	3
37	Micro Controllers for Industrial Application (PIC)	Skill development	4
38	Power Quality and FACTS	Skill development	3
39	Soft Computing Techniques - II	Skill development	3
40	Basic Electrical Maintenance	Skill development	3
41	Automotive Electrician	Skill development	3
42	Advanced Power Electronics	Skill development	5



43	Electrical Drives	Skill development	5
44	Advance Control System	Skill development	5



List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
IV	Network Analysis		Practice Incidence Matrix Formulation Tie-set Matrix Formulation Cut-set Matrix Formulation Analysis of transient characteristics using Matlab AC and DC transient response analysis for RL,RC and RLC circuits Design and frequency response analysis of Low Pass filter Design and frequency response analysis of High Pass filter Design and frequency response analysis of Band Pass filter Design and frequency response analysis of Band Pass filter Design and frequency response analysis of Band Pass filter Design and frequency response analysis of Band elimination filter Fourier series expansion of Square wave Fourier series expansion of Sine wave
	Energy Production & Transmission	7	Practice:  1. Schematic Layout design Thermal Plant using AutoCad  2. Schematic Layout design Nuclear Plant using AutoCad  3. Schematic Layout design of Hydro Plant using AutoCad  4. Preparation of Load calculator using MATLAB  5. Designing of transmission line parameters using MATLAB  6. Designing of Insulators and calculation of voltages using MATLAB  7. Designing of Cables
	Substation Switch gear & Protection		Practice:  1. Layout Designof 220KV substation using MATLAB  2. Layout Design of 400KV & 750KV substation using MATLAB as per IEEE standards  3. Maintenance tests of CT & PT of substation as per manufacturers Hand book  4. Maintenance tests of Lightening Arrestor & Circuit Breaker of substation as per manufacturers Hand book  5. Maintenance tests of transformer as per



		University
		manufacturers Hand book 6. Design of Protection Scheme using MATLAB 7. Design & simulation of Circuit breaker using 3DS Tools Project: 1. Analysis of critically operating power system using MATLAB/DYMOLA
Systen Model Contro	ling and	Practice: Hardware/MATLAB  1. Study of Temperature control system  2. Using MATLAB, find the poles, zeros, gain and draw the pole-zero plot of the transfer function.  3. Using MATLAB, find the transfer function from given block diagram.  4. Standard Test Signals  5. Time response of first order systems to unit step and unit ramp inputs  6. Time Response of Second order systems to unit step input  7. Using MATLAB, determine the steady state error of the given system.  8. Construct the root locus for 2nd&3rd order system and analyze its stability (Gain)  9. Construct the bode plot for 2nd and 3rdorder system and analyze its stability (PM & GM)  10. Design of P,PD, PI and PID Controller for 2ndor 3rdorder system
Electri Machi Opera Contro	nes tion and	Theory Stepper motor drive, basic principles involved in stepper motor control, stepper motor specification, operation and commercial driver chips and packages, Brushless DC Motors, Reluctance Motor, Hysteresis Motor Application in Medical, Automobile, Civil, Electrical etc Practice:  4) Motor Voltage and Current Measurement.  5) ON-Load Tap changer



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	Centur UNIVER 7	Simulation of V-I characteristics of power diode & power transistor.  Simulation of V-I characteristics of MOSFET& IGBT.  Simulation of V-I characteristics of silicon-controlled rectifier.  Simulation of R and RC triggering.  Simulation of UJT triggering  6. Simulation of single phase half-wave and full-wave diode rectifier using R & L load.  7. Simulation of single phase fully controlled converter using R & L load.  8. Simulation of single phase semi converter using R-L load.  9. Simulation of 3-phase semi converter with R, R-L and dc motor load with/without freewheeling diode.
Industrial Power Electronics		using R & L load.  8. Simulation of single phase semi converter using R-L load.  9. Simulation of 3-phase semi converter with R, R-L and



		University
		500 VA Sine wave Inverter
		Industrial Battery Charger using SCR
		Precision Illumination control of Lamp
		Dual Converter using Thyristors
	7	Module I
Digital		Philosophy of digital measurements
Digital Measure	ment	Module II
and Instrume	entation	Digital frequency measurement techniques
		Module III



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			Module IV
			Digital to Analog Converters
			Module V
			Digital Voltage Measurement Techniques
			Module VI
			Digital Instrument
			Module VII:
			Signal Generator, Analyzersand Oscilloscopes
	Basic Electrical Engineering	7	Design and Analysis of Basic electrical circuits using Dymola. Plotting the V-I Characteristics of Incandescent lamp using Dymola.  Verification of KCL and KVL in series and parallel circuits using Dymola.  Analysis of Thevenin's and Norton's theorem.  3. Verification of Thevenin's and Norton's theorem using Dymola.  Solenoids and field coils. Application of solenoids in different circuits in Automobiles and in electrical circuit. Study of Transformers, Linear Transformer Model, Ideal Transformer Model, No-load Loss and Load-loss Calculation.  Calculation of current, voltage, power & power factor of series RLC circuit excited by 1-Ø A.C Supply using Dymola.  Measurement of power and power factor in a 3-Ø AC
V	SCADA based advanced features	1	circuit by (one, two and three) wattmeter using Dymola.  SCADA BASED ADVANCED FEATURES  4.1 Alarms  4.2 Trends, Data base connectivity & Report generation  4.3 Recipe management  4.4 Security  Practice:  P4.1 - Data fetching and representing on graph and excel
	SCADA & PLC based sequential control	1	P4.2 - Advanced controlling of industry by using SCADA SCADA-& PLC BASED SEQUENTIAL CONTROL 5.1 Script 5.2 Networking 5.3 Device connectivity.



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			Practice:
			P5.1 Script
			P5.2 Networking
			P5.3 Device connectivity
	OPC server base	1	OPC SERVER BASE DATA FETCHING & CONTROL
	data fetching &		7.1 Study of Open Platform Communications
	control		7.2 OPC to control PLC, SCADA.
			7.3 OPC based different protocol concept.
			7.4 Data handling using OPC.
			Practice:
			P7.1 Installation of OPC
			P7.2 OPC protocols
			P7.3 Connectivity of PLC, SCADA & ARDUINO to OPC.
	Introduction,	7	Generation, Transmission & Distribution scenario in
	Power Scenario,		India, Hydro Power Generation
	Power Quality		[Lab Practice in Own Distribution Network, Modeling],
	& Fault		Thermal Power Generation
	clearance.		[Field Visit+ Lab Practice in Own Distribution Network],
	cicarance.		Renewable Energy Sources
			[Visit to Standard Testing Lab, Workshop Practice, &
			Maintenance], Energy Conservation, Electricity Costing
			& Audit, Future of Energy
	Switchyard &	7	The state of the s
	substation	1	Switchyard system, Switchyard/Substation Types,
			System Networking, Busbar Electrical System, Layout
	Networks		plan, Safety Norms, & Isolation, Locking & Tagging
	Protection	7	System Protection Schemes, IDMT Protection, Distance
	scheme &		Protection, Busbar Protection, Switchgears, Safety
-	Switchgear		Norms, & CT-PT, Locking & Tagging
	Cable system &	7	General Cable System, 3 Phase cable system, Cable
	Testing		Protection, Cable Testing, Cable Jointing, Safety Norms,
			& Cable, Cable Layout
	Power Markets	7	Market Schemes, Market Framework, Market
			Operation, Channeling, Power Evacuation, Costing,
			Modeling
	Grid Safety	7	Safety Practice, Safety Framework, Fire Safety
			Operation, Electrical Safety, Safety Equipments, PPE,
			Safety Drill
	Transformer	7	About Transformer, Manufacturing Process,
	Manufacturing		Transformer Operation, Electrical Safety in Testing,
	& Testing		Testing Equipments, Type Test, Routine Test
	Renewable	5	Module 1 Overview of Renewable Energy technology
	Energy		Module 2 Solar PV technology Module 3 Wind energy
	Technology for		technology Module 4 Bio-energy technology Module 5
	Industrial		Solar Thermal Technology
	Process		
	Materials for	3	Module 1 Basic fundamentals of different types
	Sustainable		semiconductors Module 2 Efficiency calculation of solar
	Energy		cell Module 3 Perovskite based solar cell
	Applications		
	Microgrid	4	Practice 1: Site survey (1 kW or 1MW)
	Design and		Practice 2: Sizing of micro grid system (1kW/1MW)
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Implementation		Practice 3: Single line diagram of micro grid system Practice 4: Identify and specify different components used in a micro grid system Practice 5: Connection practice of solar modules in a micro grid system Practice 6: Designing of micro grid system Practice 7: Analysis of micro grid system Practice 8: Designing of micro grid system Practice 8: Designing of micro grid system with battery storage Practice 9: Performance calculation of micro grid system Practice 10: Connection practice of CCR/Inverter in a micro grid system Practice 11: Test, record and verify the power quality of a micro grid system
Hybrid	4	Practice 12: O & M of micro grid system  Module 1 Hybrid Power systems Module 2 Solar PV and
Renewable Energy Systems		Thermal (Solar PVT) system Module 3 Photovoltaic and wind system Module 4 Photovoltaic and Hydro system
Solar Off-Grid Entrepreneur	3	Module 1 Government Scheme and Subsidy Module 2 Costing of Solar components and selection criteria Module 3 Business development for solar energy customers



## Annexure-C

## List of Skill courses (Basket) approved

SI. No.	Course Title	Credi	
1	Introduction to Quantum Computing	4	
2	Organic Farming	4	
3	Mushroom Farming	4	
4	Hydroponics Technology		
5	Poultry Farming	4	
6	Dairy Farming	4	
7	Vermicomposting Farming	4	
8	Transformer Manufacturing, Repairing and Maintenance	4	
9	Electrical Installation	4	
10	Repair and Maintenance of Home Appliances	4	
11	Refrigeration and air conditioning	4	
12	Super critical Co2 plant operation	4	
13	Business Plan Preparation	. 4	
14	Composite fabrication practice	4	
15	Powder coating practice	4	
16	Farm appliances operation	4	
17	Bio fertilisers preparation	4	
18	PCB designing & fabrication	4	
19	Introduction to Block Chain Technology	4	
20	Introduction to Nutraceuticals	4	
21	Introduction to NLP	4	
22	Introduction to Computational Biology	4	
23	Product Life Cycle Management through Gate process	4	
24	New material development with Biovia	4	

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25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	4
29	Digital Painting	4
30	Computer Installation and Maintenance	4

## List of Domain courses approved

SI. No	Domain Course Title	Credit	(T+P+P)
1	Industrial Automation	24	5+9+10
2	Operation & Maintenance of Electrical Grid System & Transformers	24	6+14+4
3	Embedded System Design	18	3+9+6
4	Renewable Energy Applications	22	4+8+10

## List of value added courses approved

SI. No	Course Title	Hrs. of input
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	· 30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours



# School of Engineering & Technology Department of EEE

Time: 11.00 a.m. Venue: Virtual Mode

Date: 11.07.2020

## **Board of Studies Meeting**

#### **Attendance Sheet**

Sl. No	Name of the BoS Member(Internal Faculty and External Resource)	Designation	Signature
1.	Prof. (Dr.) Radhakant Padhi	Honorary Provost, Centurion University of Technology and Management	Attended online
2.	Prof. (Dr.) Jharna Majumdar	Prof. of Eminenc, Centurion University of Technology and Management	Attended online
3,	Prof. Jagannath Padhi	Director, Centurion University of Technology and Management	Attended online
4.	Prof. (Dr.) Prasant Kumar Mohanty	Dean, SoET, Centurion University of Technology and Management	Attended online
5.	Prof. (Dr.) Ashish Ranjan Dash	Associate Dean, SoET, Centurion University of Technology and Management	Attended online
6.	Prof. (Dr.) Sudhansu Kumar Samal	HOD, EEE, Centurion University of Technology and Management	Attended online
7.	Prof. (Dr.) P. K. Hota	Department of Electrical, VSSUT, Burla	Attended online
8.	Mr. P. K. Pradhan	Ex- Director (Commercial), GRIDCO; Ex-CEO, WESCO	Attended online

Dean, Academics

Dean - Academic Centurion University of Technology & Management



### School of Pharmacy and Life Sciences

Date: 11-07-2020

## MINUTES OF BOARD OF STUDIES MEETING held on 11-07-2020

Venue: Virtual Mode

Time: 02.30 p.m.

The Board of Studies (BoS) meeting of School of Pharmacy and Life Sciences(SoPLS) was held on 11-07-2020 at 11 a.m. The following members were attended:

- 1. Mr. Mahesh Pattnaik, Director SoPLS
- 2. Mr. Sisir Panigrahi, Director SoPLS
- 3. Dr. Gurudutta Pattnaik, Dean SoPLS
- 4. Dr. Amulyaratna Behera, Professor SoPLS
- 5. Dr. Susant Kumar Sahu, HOD UDPS, Utkal University

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the School of Pharmacy and Life Sciences presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 22-06-2019 were confirmed.

## Agenda 2: Apply M. Pharm in Pharmaceutics & Industrial Pharmacy branch.

• The committee decided to apply for opening of M. Pharm in two specializations (Pharmaceutics & Industrial Pharmacy).

## Agenda 3: Discussion and Resolutions taken (Syllabus/Evaluation systems etc.)

- Feedback received from expert from academics, Pharmaceutical industry & students for designing and review of syllabus.
- As per Pharmacy council of India, the statutory council which regulate the Education system in the country have restructured their syllabus in 2017. The new syllabus framed and implemented in 2018 is as per the current need Pharmaceutical sector. Hence the current syllabus is being imparted from 2018 to till date.
- School of Pharmacy and Life Sciences progress and performance in academic is reviewed and found satisfactory in syllabus, class performance and results, hence BOS after due deliberation accepted the points raised by the Dean of School of Pharmacy and Life Sciences.
- It is also resolved to follow the prescribed syllabus, credit system of PCI guide lines with an incorporation of university course code.
- Project work: The Board approved the revision of the syllaubus in keeping with the latest requirements of the industry.



## Agenda 4: Inclusion of courses on life skills and value addition

• It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members.

The Dean, School of Pharmacy and Life Sciences extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoPLS

DEAN
SCHOOL OF PHARMACY AND LIFE SCIENCES

CUTM.BHUBANESWAR

Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



# Additional Documents Appendix 1

## Skill Courses approved by university in 2020-21.

Sl. No	Course Title	Credit
1	Introduction to Quantum Computing	4
2	Organic Farming	4
3	Mushroom Farming	4
4	Hydroponics Technology	4
5	Poultry Farming	4
6	Dairy Farming	4
7	Vermicomposting Farming	4
8	Transformer Manufacturing, Repairing and Maintenance	4
9	Electrical Installation	4
10	Repair and Maintenance of Home Appliances	4
11	Refrigeration and air conditioning	4
12	Super critical Co2 plant operation	4
13	Business Plan Preparation	4
14	Composite fabrication practice	4
15	Powder coating practice	4
16	Farm appliances operation	4
17	Bio fertilisers preparation	4
18	PCB designing & fabrication	4
19	Introduction to Block Chain Technology	4
20	Introduction to Nutraceuticals	4
21	Introduction to NLP	4
22	Introduction to Computational Biology	4
23	Product Life Cycle Management through Gate process	4
24	New material development with Biovia	4
25	Spectral image processing using Python	4
26	Satellite data processing	4
27	Working with Graphene and carbon fibre	4
28	Adobe Tools and Illustrations	4
29	Digital Painting	4
30	Computer Installation and Maintenance	4



## • Value added Courses approved by university in 2020-21

Sl. No	Course Title	Hrs. of input
1	Natural Resource Management	30 Hours
2	Research Methodology and IPR	30 Hours
3	Urban Gardens using Hydroponics	30 Hours
4	Introduction to Python	30 Hours
5	MATLAB	30 Hours
6	Waste to Wealth	30 Hours
7	Technical Writing	30 Hours
8	Organic Farming	30 Hours
9	Disaster Management	30 Hours
10	Ethical Hacking	30 Hours
11	Web Development	30 Hours
12	Food & Nutrition	30 Hours
13	Clinical Practice	30 Hours
14	Innovation Management	30 Hours
15	Financial Literacy	30 Hours
16	Yoga and Meditation	30 Hours
17	Steps for Career Plan	30 Hours
18	MS Excel Basics	30 Hours
19	Quality Analysis	30 Hours
20	Ethical Writing Practice	30 Hours
21	Ansys	30 Hours
22	Video Making for Youtubers	30 Hours



### School of Pharmacy and Life Sciences

Time: 02.30 PM

Date: 11-07-2020

Venue: Board Room, CUTM, Bhubaneswar (Online Mode )

### **Board of Studies Meeting**

#### **Attendance Sheet**

Sl.No	Name of the Member	Designation	Signature
1	Prof. Supriya Pattanaik	Vice Chancellor, CUTM	Attended online
2	Prof. Anita Patra	Registrar, CUTM	Attended online
3	Dr. S.K. Sahu	HOD UDPS, Utkal University	Attended online
4	Mr. Mahesh Pattnaik	Director SoPLS	Attended online
5	Mr. Sisir Panigrahi	Director SoPLS	Attended online
6	Dr. Gurudutta Pattnaik	Dean SoPLS	Attended online
7	Dr. Amulyaratna Behera	Professor SoPLS	Attended online

Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



#### School of Agricultural and Bio-Engineering

#### Department of Phytopharmaceuticals

Date: 11/07/2020

#### MINUTES OF BOARD OF STUDIES MEETING held on 11/07/2020

#### Virtual Mode

Time: 12.00 p.m.

The Board of Studies (BoS) meeting of Department of Phytopharmaceuticals was held on 11/07/2020 at 12 p.m. in online mode (due to the continuing Covid-19 Pandemic). The following members are present during the meeting.

- 1. Dr. Prasanta Kumar Mohanty, Dean Academics, CUTM
- 2. Dr. Sivala Kumar, Dean SoABE, CUTM
- 3. Dr. U V Babu, Head R&D, Himalaya Wellness, Bangalore, India.
- 4. Dr. R Kannan, Principal Scientist, Himalaya Wellness, Bangalore, India.
- 5. Mr. Amitesh Roy Choudhury, Corporate Advisor.
- 6. Dr. Gitanjali Behera, HOD, Agricultural Engineering, CUTM
- 7. Dr. Prasanta Kumar Choudhury, Head Dairy Technology, SoABE, CUTM
- 8. Dr. Bhisma Narayan Rath, Head Phytopharmaceuticals, SoABE, CUTM
- 9. Dr. S. P. Nanda, Dean Administration, MSSSoA, CUTM
- 10. Dr. Devendra Reddy, Dean Academics, MSSSoA, CUTM
- 11. Prince K Jha, 3rd Year B.Tech Phyto Student, CUTM

Dean SoABE have given a presentation on course structure of B.Tech Ag, Dairy Technology and Phyto-pharmaceutical department. There was a thorough discussion on the syllabus of B. Tech Phytopharmaceuticals and the following feedback was suggested by the Experts. The following agenda items were taken up subsequently:

### Agenda 1: The minutes of the last meeting of the BoS held on 22/06/2019 were confirmed.

#### Agenda 2: Revision of Curriculum for the programme B. Tech Phyto

- It was discussed and decided to follow the CBCS structure of 5 Basket systems of Syllabus of School of Engineering & Technology in the B.Tech Phytopharmaceuticals programme.
- Dr. U. V. Babu & Dr. R. Kannan (Himalaya Wellness: Congratulations CUTM for Phytopharma. Basket 4 is very suitable for industry & students will have all desired expertise. Pharmacognosy need addition for bioactive components. Need addition of phytochemistry and natural products analysis by NMR. Regulatory course changes to focus



- on GMP. Ensure students visit industry of students (To engage students in academic/industry interface.)
- Mr. Amitesh Roy Choudhary: CUTM is bridge between industry and academics. Don't give idea only for jobs, encourage entrepreneurship for students.
- Mr. Prince K Jha, Ms. Pragyan Paramita Puti: Agreed that majority of subjects are well planned and delivered. However, they are having biology background and were not comfortable in engineering subjects like (thermodynamics, mathematics).
- Industry Expert: The department have taken up everything in the course syllabus to graduate a best student from the University. The student should be exposed to more field visit and industrial visit, so that the outcome will be best. Dean SoABE explained that we have already taking our students to field and industry visit to have a better practical understanding of the subjects.
- The list of new courses added is given in Annexure A.

## Agenda 3: Discussion on modification of syllabus of Basket- 4, 5

The Board approved the changes suggested in the core courses. List of existing courses where syllabus was changed in (*Annexure B*)

## Agenda 4: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure C).

The Dean, SoABE, extended sincere thanks to all members of the Board. The meeting ended with a vote of thanks to the Chair.

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Dean, SoABE

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Dean, Academics
Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050

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HoD, Phytopharmacutical



## Annexure-A

## List of new courses added

l. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Computer Aided Drafting	Skill and Employability	2
2	Product Design and Development	Skill and Employability	
3	Reverse Engineering and Rapid Prototype	Skill and Employability	4
4	Product Life Cycle Management	Skill and Employability	2
5	Manufacturing Process- process planning and Heat Treatment	Skill and Employability	3
6	Material in product design and development	Skill and Employability	2
7	Computer Aided Engineering	Skill and Employability	3
8	Quality Assurance	Skill and Employability	2
9	Applied Ergonomics	Skill and Employability	2
10	Computer Aided Manufacturing	Skill and Employability	2
11	CNC Programming & CNC Machining	Skill and Employability	2
12	Design of Tools, Jigs and Fixtures	Skill and Employability	3
13	Advance Metrology	Skill and Employability	2
13	Thermodynamics	Skill and Employability	3
15	Fluid Mechanics with Finite Volume Method	Skill and Employability	3
16	Hydraulic Machinery	Skill and Employability	2
$\frac{10}{17}$	Theory of Machines	Skill and Employability	3
18	Heat Transfer with FDM/FVM	Skill and Employability	3
19	Theories of Failure Using Finite Element Analysis	Skill and Employability	4
20	Optimization Techniques	Skill and Employability	2
21	Programming in Java (Same as Java Technologies)	Skill and Employability	3
22	Database Management Systems	Skill and Employability	3



### Annexure-B

## List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1	Post-Harvest Engineering of Horticultural Crops	1	Credits modified
2	Principles of Agronomy	1	Aligned with Fundamentals of Agronomy
3	Principles of Soil Science	I	Aligned with Fundamentals of Soil Science
4	Principles of Horticultural Crops and Plant Protection	1	Aligned with Fundamentals of Horticulture
5	Soil and Water Conservation Engineering and Water Harvesting and Soil Conservation Structures	2	The both course was merged into Soil-Water Conservation Engineering and Structure, the credit was modified to 4 credits



## Annexure-C

## List of Skill courses

Sl. No	Course Title	Credit	(T+P+P)
1	Introduction to Quantum Computing	4	0+3+1
2	Organic Farming	4	0+3+1
3	Mushroom Farming	4	0+3+1
4	Hydroponics Technology	4	0+3+1
5	Poultry Farming	4	0+3+1
6	Dairy Farming	4	0+3+1
7	Vermi composting Farming	4	0+3+1
8	Transformer Manufacturing, Repairing and Maintenance	4	0+3+1
9	Electrical Installation	4	0+3+1
10	Repair and Maintenance of Home Appliances	4	0+3+1
11	Refrigeration and air conditioning	4	0+3+1
12	Super critical Co2 plant operation	4	0+3+1
13	Business Plan Preparation	4	0+3+1
14	Composite fabrication practice	4	0+3+1
15	Powder coating practice	4	0+3+1
16	Farm appliances operation	4	0+3+1
17	Bio fertilizers preparation	4	0+3+1
18	PCB designing & fabrication	4	0+3+1
19	Introduction to Block Chain Technology	4	0+3+1
20	Introduction to Nutraceuticals	4	0+3+1
21	Introduction to NLP	4	0+3+1
22	Introduction to Computational Biology	4	0+3+1
23	Product Life Cycle Management through Gate process	4.	0+3+1
24	New material development with Biovia	4	0+3+1
25	Spectral image processing using Python	4	0+3+1
26	Satellite data processing	4	0+3+1
27	Working with Graphene and carbon fibre	4	0+3+1
28	Adobe Tools and Illustrations	4	0+3+1
29	Digital Painting	4	0+3+1
30	Computer Installation and Maintenance	4	0+3+1



## List of Domain courses

Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy tech/ fisheries/ biological sciences

Group B: All other engineering/physical and mathematical science/vocational or skills

Group C: Pharmacy and allied Health

Group D: Management & media and communication

Sl. No.	Name of the Domain	Credit	Category	Year of introduction
1	Advance Video Processing, Computer Vision and Machine Learning	30	A/B/D	2020
2	Aerial Survey and Remote Sensing Applications	18	A/B	2020
3	Agri Business Management	23	A/B/D	2020
4	Architectural and Structural Design	20	A/B	2020
5	Business Analytics	21	A/B/D	2020
6	Chip Design and Fabrication using VLSI	18	В	2020
7	Commodity and Food Storage	29	A/B/D	2020
8	Communication Systems	18	В	2020
9	Composite Design and Manufacturing	24	A/B	2020
10	Computational Fluid Dynamics	20	A/B	2020
11	Cyber Security	24	В	2020
12	Dairy Processing and Development	28	A/B	2020
13	Fish Processing Technology	29	A/B	2020
14	Food Processing	29	A/B/D	2020
15	Gaming and Immersive Learning (AR & VR)	20	A/B/D	2020
16	Go-To-Market	22	A/B/D	2020
17	Health Care Assistancy	25	A/B	2020
18	Manufacturing Execution System	18	В	2020
19	Nutraceuticals	29	A/C	2020
20	Protected Horticulture	29	A/B	2020

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21	Renewable Energy Applications	22	A/B	2020
22	Smart Agriculture	29	A/B	2020
23	Smart Farm Machinery	28	A/B	2020
24	Soil and Water Conservation through Watershed	28	A/B	2020

## List of value added courses

Sl.	Course Title	Hrs. of input	
No		30	
1	Natural Resource Management		
2	Research Methodology and IPR	30	
3	Urban Gardens using Hydroponics	30	
4	Introduction to Python	30	
5	MATLAB	30	
6	Waste to Wealth	30	
7	Technical Writing	30	
8	Organic Farming	30	
9	Disaster Management	30	
10	Ethical Hacking	30	
11	Web Development	30	
12	Food & Nutrition	30	
13	Clinical Practice	30	
14	Innovation Management	30	
15	Financial Literacy	30	
16	Yoga and Meditation	30	
$\frac{10}{17}$	Steps for Career Plan	30	
18	MS Excel Basics	30	
19	Quality Analysis	30	
20	Ethical Writing Practice	30	
21	Ansys	30	
22	Video Making for Youtubers	30	



## School of Agricultural & Bio-Engineering

## Department of Agricultural Engineering

Time: 12.00 p.m.

Date: 11/07/2020

Venue: Board Room, CUTM, Bhubaneswar

### Board of Studies Meeting Attendance Sheet

Sl. No.	Name of the BOS Member(Internal Faculty and External Resource)	Organization	Signature
1	Dr. Supriya Pattanaik	CUTM	Attended Online
2	Dr. Anita Patra	CUTM	Attended Online
3	Dr. P.K. Mohanty	Dean, Academics	Attended Online
4	Dr. Sivala Kumar	Dean, SOABE	Attended Online
5	Dr. U V Babu	Himalaya Drug Company	Attended Online
6	Dr. R Kannan	Himalaya Drug Company	Attended Online
7	Mr. Amitesh Roy Choudhary	Corporate Advisor	Attended Online
8	Dr. Gitanjali Behera	CUTM	Attended Online
9	Dr. Prasant Kumar Choudhury	CUTM	Attended Online
10	Dr. SP Nanda	CUTM	Attended Online
11	Dr. Devendra Reddy	CUTM	Attended Online
12	Mr. Bhisma Narayan Rath	CUTM	Attended Online
13	Prince K Jha	Student, CUTM	Attended Online

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Dean, Academics
Dean - Academic
Centurion University of Technology & Management
Bhubaneswar, Khurda, Odisha-752050



# **School of Fisheries**

# **Minutes of Board of Studies Meeting -2019**

Date: 22.06.2019

Agenda; Revision of Curriculum -2019

The Board of Studies (BoS) meeting of School of Fisheries was held on 30.06.2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

- 1. Dr. Jitendra Kumar Sundaray, Principal Scientist, CIFA
- 2. Dr. Smabid Swain, HOD, Fisheries, CUTM
- 3. Dr.B P Mishra, Dean SoABE, CUTM, PKD

The discussion was carried out on the addition and revision of syllubus of following subjects for 2017-21 batch, 2018-22 batch and 2019-23 batch,

- In 5<sup>th</sup> semester following courses are offered, FSAQ-3105, FSRM-3105, FSHM-3103, FSHM 3105, FSRM-3107, FSEE-3104, FSFF-3105, FSRM-3108, FSEM-3108, FSHM-2202, FSPT-3209.
   Note: The Courses of Microbial and Parasitic Disease of Fish and Shellfish (FSHM-2202) and
  - Aquaculture Engineering (FSFE-2102) will be offered to the students of 2018-2022 and 2019-2023 batches in their 4<sup>th</sup> and 3<sup>rd</sup> Semesters but for 2017-2021 batch these courses will be offered in the 5<sup>th</sup> and 6<sup>th</sup> Semesters respectively.
- 2. Quality Assurance of Fish and Fish products course will be offered in 6<sup>th</sup> Semester for 2018-2022 and 2019-2023 batches but for 2017-2021 batch the same course will be offered in 5<sup>th</sup> semester.
- 3. Taxonomy of Shellfish (FSRM-1102) which is offered in 1<sup>st</sup> semester will be shifted to 2<sup>nd</sup> semester for the convenience of the students from 2019 batch.
- 4. Aquaculture on Reservoirs (FSAQ-1207) which is offered in the 2<sup>nd</sup> semester will be shifted to 1<sup>st</sup> semester from 2019 batch.

Addition of matters in theroy courses,

- 1. Soil and Water Chemistry (FSEM-1102): Aeration, chlorination, ozonization and UV-radiation, waste and water treatment practices, algal bloom control and eutrophication, aquatic weed management, soil probiotics.
- 2. Freshwater Aquaculture (FSAQ-1202): Biofloc Technology (BFT), Zero water aquaculture, Intensive system for Aquaculture, Imapet of Aquaculture to Environment, Quarantine.
- 3. Fish Food Organisms (FSAQ-2109): Copepod, polycheats.
- 4. Ornmental Fish Production and Management (FSAQ-2103): Value addition, colour enhancement, Gene editing and production of new strain, hybrids.
- 5. Coastal Aquaculture and Mariculture (FSAQ-2204) Pompano, Reef fisheries, Hilsa.
- 6. Therapeutics in Aquaculture (FSHM): Introduction to Antimicrobial Resistance (AMR)
- 7. Shellfish Hatchery Mamnagement (FSAQ-2206) L. vennamei Breeding and Hatchery Management
- 8. Fish Toxicology (FSHM-3105) Endocrine disrupter chemicals

- 9. Fisheries Co-operative and Marketing (FSEE-3104)- NCDC, FISHCOFED, NFDB, MPEDA
- 10. Fisheries policy and Law (FSEE-3203): Odisha, Fisheries Policy 2015

The meeting concluded with vote of thanks to the Chair.

**Head School of Fisheries** 

Dean (Academics) ,MSSSoA

TM : Devender My

22/6/19

DR JITEMBRA KUMBAR SUMBARAY

HEAD OF DIVISION

(FISH GENETICS & BIDIEMMOLOGY)

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Ur. SAMBID SWAIN
HOD, ABROMM, Department of fisheries
MSSCOA, WTM, PKD

B. P. MISHT (SOABE)



# CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

## School of Engineering & Technology

# Department of Civil Engineering

Date: 22/06/2019

# MINUTES OF BOARD OF STUDIES MEETING held on 22/06/2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 22/06/2019 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

- 1. Dr. Vazeer Mahmood, Professor, Dept of Civil Engg., Andhra University
- 2 Dr Siba Prasad Mishra, , Internal Expert
- 3 Prof. Prafulla Kumar Panda, Internal Expert
- 4 Prof. Sagarika Panda, Internal Expert
- 5 Prof. Kamal Kumar Barik, Internal Expert
- 6 Prof Rakesh Kumar Jena, Internal Expert
- 7 Prof Prashant Nayak, Internal Expert

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

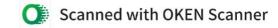
The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30/06/2018 were confirmed.

# Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Civil Engg., M.Tech Structural Engineering and M.Tech Transportation Engg.

The HoD, Civil Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2020-21.

- The syllabus was highly appreciated because the university follows Choice-based Credit system and courses relevant to the advancement in Mechanical Engineering are put in the
- The members noted that the courses are mostly industry-oriented and also provide scope for competitive examination like UPSC, GATE etc. The members remarked that the syllabus is designed to enhance skill level of the students.
- The syllabus offers scope for gaining knowledge in other branches of engineering. Also offers scope to enhance on knowledge in AI, Machine learning, Nano Technology, Data science,
- The syllabus is best suited for each semester, but certain courses need to be modified.
- The syllabus is good but as compared to the content of syllabus, the credits are very less.





- The syllabus is quiet useful. There should be more practice subjects to increase student efficiency and skill.
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. (Annexure A.)
- Discussion on modification of syllabus of Basket-5.
- The domain course should be taught in practice and project mode.
- The Board approved the changes suggested in the Hydraulics and Hydraulic machine, Disaster Management, Transportation Engg. And Water supply and sanitary engineering as per the latest Software and technology being used by the industry. List of existing courses where syllabus was revised in (*Annexure B & C*)

# Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure D)

The HoD, Department of Civil Engg. extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

Dean, SoET

Dean, SOET

Centurion University of Technology & Management

Dean, Academics

Dean - Academic

Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050 HOD

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Technology & Management, BBSR





# List of new courses added

SI.	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
No	Course Time		
1	Disaster Preparedness &	Skill And Employability	2
	Planning management		
2	Functional Planning &	Skill And Employability	3
	DPR		1
3	Site Supervision &	Skill And Employability	4
	Measurement Methods.		
4	Tendering Process,	Skill And Employability	3
	Bidding Contract,		
	Agreements &		
	Arbitration.		
5	Green Building Design	Skill And Employability	3
6	Barrier Free Design	Skill And Employability	2
7	Intelligent Building	Skill And Employability	2
	Design		
8	3D Modelling and VR	Skill And Employability	4
	experience of Building		
9	Geospatial Technology	Skill And Employability	5
	and its Application		
10	Photogrammetry and its	Skill And Employability	4
	Application		
11	Concrete Technology	Skill And Employability	2



# Annexure-B

# List of existing courses where syllabus was revised

Basket/ Semester	Name of Course	No. of Modules/ Topics revised	Revised Modules/Topics (details)
IV	Pre-Fabricated Structures	1	One module has been added depending on the industry requirement One module has been added
IV	Soil Mechanics	2	depending on the industry requirement  One module has been added and another
ĪV	Transportation Engineering	2	module is merged with slight change as ner industry requirement
IV	Water supply & Waste water Management	1	One module has been added depending on the industry requirement
IV	Hydrology & Water Resources Engineering	1	One module has been added depending on the industry requirement
IV	Quality Control and Risk Management in Construction	1	One module has been added depending on the industry requirement
IV	Geotechnical Investigations	1	One module has been added depending on the industry requirement
ĪV	Repairs, Renovation and Rehabilitation of Structures	1	One module has been added depending on the industry requirement
IV	Software Based Project Scheduling and Management	1	One module has been added depending on the industry requirement
IV	Earthquake Resistant Design	1	One module has been added depending on the industry requirement
IV	Architectural Design	1	One module has been added depending on the industry requirement
IV	Remote Sensing & Digital Image Processing	1	One module has been added depending on the industry requirement
IV	Lidar Remote Sensing and its Applications	1	One module has been added depending on the industry requirement
IV	Smart City Planning	1	One module has been added depending on the industry requirement



# Annexure-C

# List of existing M.Tech courses where syllabus was revised

SI no	Name of Course	No. of Modules/T	
S1 H0		opics revised	Revised Modules/Topics (details)
1	Advanced Structural Analysis	1	One module has been added depending on the industry requirement
2	Structural Dynamics	1	One module has been added depending on the industry requirement
3	Theory of Elasticity & Plasticity	1	One module has been added depending on the industry requirement
4	Bridge Engineering	1	One module has been added depending on the industry requirement
5	Computer Graphics	1	One module has been added depending on the industry requirement
6	Finite Element Method	1	One module has been added depending on the industry requirement
7	Concrete Technology	1	One module has been added depending on the industry requirement
8	Structural Engineering Lab	1	One module has been added depending on the industry requirement
9	Renovation and retrofitting of green structures	1	One module has been added depending on the industry requirement
10	Soil Dynamics and Geotechnical Earthquake Engineering	1	One module has been added depending on the industry requirement
M Tec	h Transportation Engineering		
1	Pavement Analysis and Design	1	One module has been added depending on the industry requirement
2	Highway Project formulation and Economics	1	One module has been added depending on the industry requirement
3	Traffic Safety	1	One module has been added depending on the industry requirement
4	Remote Sensing and GIS for Transportation Engineering	1	One module has been added depending on the industry requirement
5	Pavement Evaluation, Rehabilitation and Maintenance	1	One module has been added depending on the industry requirement
6	Highway Project formulation and Economics	1	One module has been added depending on the industry requirement



### Annexure-D

# List of Skill courses (Basket) approved

Sl.	Course Title	Credit	(T+P+P)
No			0.2.1
1	Refraction Technology	3	0+2+1
2	Emergency Medical Technology	3	0+2+1
3	Medical Lab Technology	3	0+2+1
4	Operating Theatre Technology	3	0+2+1
5	Radiology Technology	3	0+2+1
6	Phlebotomy Technology	3	0+2+1
7	First Aid Service	3	0+2+1
8	General Duty Assistance Service	3	0+2+1
9	X- ray Technology	3	0÷2÷1
10	Retail Sales	3	0+2+1
		3	0+2+1
11	Basketball	3	0+2÷1
12	Gym Fitness	3	0+2+1
13	Swimming	3	0+2+1
14	Yoga & Meditation		0+2+1
15	Solar PV Installation	3	0+2+1 0+2+1
16	Solar Lighting Technology	3	0+2+1
17	Solar PV Microgrid System	3	0+2+1
18	Solar PV Driven Equipment O/M & Assembly	3	0+2+1
19	Solar Thermal Engineering	1 -	10.2.1

List of Domain courses approved

SI.	Domain Course Title	Credit	(T+P+P)
No			
1	Automobile Engineering	24	8+12+10
2	Operation and Maintenance of Electrical Grid	24	8+12+10
	System & Transformers		

List of value-added courses approved

LIST OF	List of Value-added courses approved				
SI.	Course Title	Hrs. of input			
No					
1	LSD-2	30			
2	Conduct in daily Life-Insights from The	30			
11/11/2	Panchatantra				
3	Human Rights	30			
4	Renewable Energy	30			
5	Data science & ML	30			
6	Introduction to Nutraceuticals	30			
7	Introduction to Tableau	30			
8	Basics of Photography	30			
9	Innovation Management	30			



10	Effective Writing	30
		30
11	Indian Culture and History	
12	Critical Thinking	30
13	Disability, Diversity and Development	30
14	Intellectual Property Rights	30
15	Emotional Intelligence	30
16	Home remedies for healthy living	30
17	Self-Management: Insights from Srimad	30
	Bhagavad Gita	

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### CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

### MS Swaminathan School of Agriculture

Date:22.06.2019

### MINUTES OF BOARD OF STUDIES MEETING held on 22.06.2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of MS Swaminathan School of Agriculturewas held on 22.06.2019at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

- 1. Prof.P.K.Mahapatro
- 2. Prof.B K Mishra
- 3. Prof. M.Devender Reddy
- 4. Prof. Satya Prasad Nanda
- 5. HOD Agronomy
- 6. HOD Plant Pathology
- 7. HOD Entomology
- 8. HOD Soil Science
- 9. HOD Extension
- 10. HOD GBP
- 11. HOD Biotechnology
- 12. HOD Plant Physiology
- 13. HOD Horticulture
- 14. Alumni

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean of the MS Swaminathan School of Agriculturepresented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

# Agenda 1: The minutes of the last meeting of the BoS held on 22.06.2019were confirmed.

- 1. All the external BoS members appreciated the structure and course outline of different courses and domains. They mentioned that the courses are well structured, organized and application oriented as per academics and industry is concerned. They also appreciated the on-line class delivery initiative of the University.
- 2. Prof. P. K. Mahapatro, Retd. Dean, OUAT, suggested and emphasized to incorporate the smart agriculture management practice in production courses of UG and PG courses. He also suggested to give importance to on Biofertilizer production and utilization in organic production systems.



- The Dean Agriculture. gave a presentation on the feedback received on curriculum outlining
  the suggestions made by the various stakeholders. Based on this, the Board accepted and
  approved a few suggestions for course revision to be implemented from the Academic Year
  2018-19.
- Discussion and Resolutions taken (Syllabus/Evaluation systems etc.);

Students should be more and more exposed towards industries and gain industrial experience, entrepreneurship skills and start ups.

Students should be trained in Digital Marketing Skills and in improving the personality Reshuffling of courses in UG

## Agenda 3:Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members.

1.under high tech horticulture, production of quality planting materials should be kept under ELP programme

- 2.Increase of organic farming production of biofertilizer a) 2 bio pesticides b)production technologies for field crops c)production technologies for horticultural crops should be kept under AELP track -1 and production of an individual crops under AELP track-2
- 3. It was decided to introduce new supporting and minor courses in M. Sc. (Ag) and follow the guideline of BSMA, ICAR from time to time. Newly formed domains for B.Sc (agriculture) like Organic Farming, Dairy processing and development, Intensive aquaculture, Seed production using manual and molecular method, Genetic engineering genomics, Smart Agriculture, Protected agriculture, Food processing, Commodity and food storage, Fish processing, Fish processing technology and several Skill courses.

The Dean , MS Swaminathan School of Agriculture. extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

Convener of BoS& Dean MSSSoA(Academics)

Dean Administration

22/5/19

DR JINEMBRA KUMBAR SCHDARAY
HEAD OF DIVISION

(FISH GEHETICS X BIDIEMMOLOGY)

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Ur. SAMBID SWAIN
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# CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

#### School of Engineering & Technology

Department of Computer Science and Engineering

Date: 22.06.2019

#### MINUTES OF BOARD OF STUDIES MEETING held on 22.06.2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Computer Science and Engineering was held on 22.06.2019 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the Board members:

- 1. Sanjeeb Kumar, Industry Expert, Mindtree
- 2. Prof. Subbarao, APSSDC Director
- 3. Chandan Giri, Asst. Prof, CSE
- 4. K. Santosh Chandra Rao, Asst. Prof., CSE
- 5. Suvendu Kumar Nayak, Asst. Prof., CSE
- 6. Dr. Prasant Kumar Mohanty, Dean, SoET

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Computer Science Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

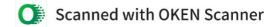
Agenda 1: The minutes of the last meeting of the BoS held on 30.06.2018 were confirmed.

Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Computer Science Engg.

- The HoD, Computer Science and Engg, gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2019-20.
- The Board approved the changes suggested in the existing syllabus and some new domains were added as per the latest technology being used by the industry. (Annex 1)
- In this regard Cyber Security domain is approved to run in collaboration with IBM, and Cloud domain to be offered in collaboration with AWS.

# Agenda 3: Inclusion of courses on life skills and value addition

The members suggested to provide various life skills and value-added courses offered by the university for the overall improvement of student. The same was agreed upon and approved by the Board members. (Annex 2 and Annex 3)





The HoD, Department of Computer Science and Engg, extended sincere thanks to all members of the Board,

The meeting ended with a vote of thanks to the Chair.

Dean, SoET

Dean, Academics

HoD, Computer Science & Engineering

Dean, SOET

Dean Academics

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HOD CSE Centurion institute of Technology



### Annexure 1

# List of courses partly modified

SI. No	Name of Course	Credit	Details of modification
1	Data Base Management System	3 .	30% new content was added
2	Operating System	3	20% new content was added
3	Problem Solving using Python	3	35% new content was added
4	Mobile App Development	4	65% new content was added
5	Computer Networks	4	65% new content was added
6	Computer Organization and Architecture	3	50% new content was added
7	Formal Language and Automata Theory	3	30% new content was added
8	Design Analysis and Algorithms	4	25% new content was added



# Annexure 2

List of Skill Courses offered in the Year 2019-20

C.N.			
S No	Course Name	Course Code	Credit
1	Refraction	CUTM3057	
	Technology		4
2	Emergency Medical		
	Technology	CUTM3058	4
3	Medical Lab		
	Technology	CUTM3059	4
4	Operating Theatre		
·	Technology	CUTM3060	4
5	Radiology	•	
	Technology	CUTM3061	4
6	Phlebotomy		
	Technology	CUTM3062	4
7	First Aid Service	CUTM3063	4
8	General Duty		
0	Assistance Service	CUTM3064	4
9	X- ray Technology	CUTM3065	4
10	Retail Sales	CUTM3067	4
11	Basketball	CUTM3068	4
12	Gym Fitness	CUTM3069	4
13	Swimming	CUTM3070	4
14	Yoga & Meditation	CUTM3072	4



Annexure 3 List of Value added Courses offered in the Year 2019-20

S No	Name of the value added courses (with 30 or more contact hours)offered	Course Code (if any)	Duratio n of course
	The Mind-Its mysteries and conquest	CUVA0040	30 Hours
2	Understanding Personality- The Bhagavad Gita Perspective	CUVA0041	30 Hours
3	Understanding Leadership - The Valmiki Ramayana Perspective	CUVA0042	30 Hours
4	Organic Farming	CUVA0043	30 Hours
5	Urban Kitchen gardens using Hydroponics	CUVA0044	30 Hours
6	Introduction to PowerBI	CUVA0045	30 Hours
7	Introduction to Python	CUVA0046	30 Hours
8	Food & Nutrition	CUVA0047	30 Hours
9	Behavioural Economics	CUVA0052	30 Hours
10	Nutrition for Healthy Living	CUVA0053	30 Hours
11	Conflict Resolution	CUVA0054	30 Hours
12	Gender issues in Contemporary times	CUVA0055	30 Hours
13	Natural Resource Management	CUVA0067	30 Hours
14	Rural Livelihood and Promotion	CUVA0068	30 Hours
15	Leadership in Organizations	CUVA0069	30 Hours
16	Introduction to Qualitative Research Methodology	CUVA0071	30 Hours



17	Knowledge Management	CUVA0072	30 Hours
18	Professional Etiquette	CUVA0073	30 Hours

Minutes of the Meeting Agenda - 1. Revision of Blech CSF Synabus, Basket 3,485.

The Bos meeting was held in CUTM, BBSK on dated 22-06-19 for the session 2019-20. The course structure and synabus for above montioned programmes were presented to the members of Bos for theore final approval. The following ouggestioned were made,. - The course structure and synabus was accepted without any changes. Following ouggentions were descused to extrangthen the quarry of delovery.

1) FREW Endustry lecture should be Encheded En Coverse pedagogy Whenever applicable

a) fundamental and bouric concept mus be covered before projects and practical works are under taken.

8) It is suggested to keep advance gava topies in the curriculum 4) Morce 3 noturing correction has to be doene in order to expose student and faculty mambers to the read world problems and Endustry environment The meeting wers concluded with vote of thanks to the member present

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2-Chandan Kuman Gini

CSE, CUTM, PKD K. Santoch Ch. Rao CSE, CETM, PKD (HOD)

Suvenda Nayak COR, COTM, BBSR



#### CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

#### School of Engineering & Technology

# Department of Electrical & Electronics Engineering

Date: 22.06.2019

#### MINUTES OF BOARD OF STUDIES MEETING held on 22.06.2019

Venue: Room No. - 104, CUTM. Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of EEE was held on 22.06.2019 at \$1 a.m. in the Room No.-104, CUTM Bhubaneswar. The following are the Board members:

- 1. Prof. P.K. Pradhan, Ex-Director -Commerce, GRIDCO (Industry Expert)
- 2. Prof. P.K.Hota, VSSUT, Burla (Academician)
- 3. Prof. Jagannath Padhi, Director. CIT (Internal Expert)
- 4. Prof. Abhinna Chandra Biswal, Professor, CIT
- 5. Prof. Amit Kumar Sahoo, HoD, CIT (Faculty)
- 6. Prof. Manoj Samal, HoD. CIT (Faculty)

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of EEE presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30.06.2018 were confirmed.

# Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, EEE.

The HoD, EEE gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2019-20.

- 1. Renaming of few subjects were suggested as below
  - a) Power System Market and Regulation suggested to be renamed as Power System Market, Acts and Regulation (in Basket 5)
  - b) The domain name Design, fabrication and repair of Transformer up to 33kV should be renamed as Design, Fabrication and Repair of Distribution Transformer (Basket 5)
- 2. One new course Soft Computing is to be added in open basket courses. The pre-requisite for this paper will be 'Soft Computing I'. The existing Soft Computing paper is to be renamed as 'Soft Computing I'
- 3. More FDPs should be organized, particularly in the domain areas.
- 4. The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. List of new courses added in (Annexure A.)
- 5. The Board approved the changes suggested in the Distributed Generation & Microgrid, Power System Protection as per the latest Software and technology being used by the industry. Many changes were incorporated in M.Tech. power System & Control Syllabus. List of existing courses where syllabus was changed in (Amesure B)





Discussion and approval on any revision required in the Curriculum of M.Tech, Power System & Control.

- The M.Tech Power System & Control Syllabus was revised completely to make it as per industrial requirements..
- Contents of the following courses got completely changed in M. Lech Power System & Control Syllabus as per industry requirement such as Microcontroller Application with PLC, SCADA Compatible with all PLC, Advanced Electrical in Automation, Sensors and VFD Interface to PLC and SCADA, SCADA Compatible with Fixed Brand of PLC, Distributed Control System, Power System Monitoring by HMI, POWER SYSTEM SECURITY, DIGITAL SIGNAL PROCESSING APPLICATIONS IN POWER SYSTEM PROTECTION.
- It was decided to offer the M.Tech. program in an industry integrated platform focussing on process automation so as to enable working professionals to take the course and enable the regular students to focus on industry related project while doing thesis work.

# Agenda 3: Inclusion of courses on life skills and value addition

Students were asked to take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. Annexure C)

#### Agenda 4:

GATE Training was introduced in the timetable for final year students to encourage students to go for higher studies and to compete for PSU jobs.

The HoD. Department of EEE extended sincere thanks to all members of the Board.

The meeting ended with a voteof thanks to the Chair.

Dean, SoET

Dean, SOET

Centurion University of Technology & Manag Odisha Dean, Academics

Dean - Academic

Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050 HoD, EEE Department HO,D (EEE)

CENTURION UNIVERSITY

OF

TECHNOLOGY AND MANAGEMENT



# Annexure-A

List of new courses added (B.Tech.)

Sl. No.	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
1	Electrical Workshop Practice	Skill development	2
2	Basic Electrical Engineering	Skill development	3
3	Electrical Machines	Skill development	3
4	Introduction to automation	Skill development	3
5	Transmission & Distribution	Skill development	3
6	Power System Operation & Control	Skill development	3
7	Distributed Generation & Micro Grid	Skill development	2
8	Soft Computing Techniques - I	Skill development	2
9	Electrical Circuit Drawing (Using Auto CAD)	Skill development	2
10	Network Theory	Skill development	3
11	Electronic Measurement & Instrumentation	Skill development	3
12	Linear Integrated Circuits & Application	Employability	3
13	Power Electronics	Skill development	5
14	Micro Controllers for Industrial Application (PIC)	Skill development	4



1	1		
15	Control System	Skill development	5
16	Microprocessor and its Interfacing	Skill development	2
17	Digital Electronic Circuits	Employability	4
18	Digital Signal Processing	Employability	4
19	General PLC	Skill development	2
20	Basic Electrical (Automation based) and Panel Designing	Skill development	2
21	Supervisory Control and Data Acquisition (SCADA)	Skill development	3
22	Micro Range Programmable Logic Controller	Skill development	3
23	Small Range Programmable Logic Controller	Skill development	3
24	Medium Range Programmable Logic Controller	Skill development	3
25	Human Machine Interface (HMI)	Skill development	2
26	Variable Frequency Drive	Skill development	2
27	Project	Skill development	6
28	Internship	Skill development	4
29	Modern Transmission and Distribution System	Skill development	3



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30	Operation and Testing of Power and Distribution Transformer	Skill development	3
31	System Protection and Auxiliaries	Skill development	3
32	Construction of HT and LT lines and Cables	Skill development	3
33	Safety Practice and First Aid	Skill development	2
34	Electrical System Layout and Drawing	Skill development	2
35	Power System Market, Act and Regulations	Employability	4
36	Project	Skill development	6
37	Internship	Employability	4
38	Design of Transformer Core and Winding	Skill development	4
39	Manufacturing of Transformer HT and LT Winding	Skill development	2
40	Manufacturing of Transformer Tank and Accessories	Skill development	2
41	Testing and Commissioning	Skill development	5
42	Safety and Protection	Skill development	2
43	Transformer Repair and Maintenance	Skill development	5
44	Project	Skill development	6
45	Internship	Employability	4
46	Renewable Energy Sources and Technology	Skill development	3



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	47	Solar Photovoltaic Technology	Skill development	3
	48	Solar Thermal Technology	Skill development	3
	49	Solar Systems for Buildings	Skill development	5
	50	Solar Power Plant	Skill development	5
Same 1)	51	Decentralized and Smar Power Grids	Skill development	5
5	52	Solar Photovoltaic Laboratory	Skill development	2
5.	3	Solar Thermal Laborator	y Skill development	2
54	4	Project	Skill development	6
55		Internship	Skill development	4
56	ı	Power System Generation	Skill development	3
57	E	lectromagnetic Theory	Employability	3
58	Р	ower Quality and FACTS	Skill development	3
59	Sc	oft Computing Techniques -	Skill development	3
0	Ва	sic Electrical Maintenance	Skill development	3
1	Au	tomotive Electrician	Skill development	3
2	Advanced Power Electronics		Skill development	5
	Electrical Drives		Skill development	5
	Adv	ance Control System	Skill development	5
			Skill development	3
	5 55 56 57 58 59 0	48 49 50 51 52 53 54 55 56 11 69 11 0 Ba 1 Adv Elect Adv	48 Solar Thermal Technology 49 Solar Systems for Buildings 50 Solar Power Plant 51 Decentralized and Smar Power Grids 52 Solar Photovoltaic Laboratory 53 Solar Thermal Laborator 54 Project 55 Internship 56 Power System Generation 57 Electromagnetic Theory 58 Power Quality and FACTS 59 Il 60 Basic Electrical Maintenance 61 Automotive Electrician 62 Advanced Power Electronics 63 Electrical Drives 64 Advance Control System	47   Solar Photovoltaic Technology   Skill development     48   Solar Systems for Buildings   Skill development     49   Solar Systems for Buildings   Skill development     50   Solar Power Plant   Skill development     51   Decentralized and Smart Power Grids   Skill development     52   Solar Photovoltaic Laboratory   Skill development     53   Solar Thermal Laboratory   Skill development     54   Project   Skill development     55   Internship   Skill development     56   Power System Generation   Skill development     57   Electromagnetic Theory   Employability     58   Power Quality and FACTS   Skill development     59   Soft Computing Techniques - II     0   Basic Electrical Maintenance   Skill development     1   Automotive Electronics   Skill development     2   Advanced Power Electronics   Skill development     5   Electrical Drives   Skill development     5   Skill development     5   Skill development     5   Skill development     5   Skill development     6   Skill development     7   Skill development



# Annexure-B

List of existing courses where syllabus was changed (B.Tech.)

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
IV	Electronic Measurement & Instrumentation	7	Module I: Basics of Measurements Module II: Temperature measurement Module III: Pressure Measurement Module IV: Displacement measurement Module V: Converters and Flow measurement Module VI: Signal Analyzers
			Module VII: Oscilloscopes

List of existing courses where syllabus was changed (M.Tech.)

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1 <sup>st</sup>	Microcontroller	7	Module-1: IntroductionModule-
Semester	Application		Module-II: Architecture of Controllers
	with PLC		Module-III:
			Addressing
			Module-IV: HardwareLinking
			Module-V: Programming Basics
			Module-6: Timers, Counter, Compare
			Module-7:DifferentOperational Blocks
1 <sup>st</sup>	SCADA-	7	Module-1
Semester			Introduction ofScada

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	Compatible with all PLC		Module-2 Introduction toIntouch  Module-3 Toolbars Module-4 Wizards  Module-5 In touch SCADAFeatures-1  Module-6 In touch SCADA Features-2  Module-7 In touch SCADA Features-3
1 <sup>st</sup> Semester	Advanced Electrical in Automation	7	Module-1 Introduction Module-2 Power Supply Module-3 Basic Industrial Switches & Sensors Module-4 Relay Module-5 Contactor Module-6 Panel Designing Module-7 Starter Wiring
1 <sup>st</sup> Semester	Sensors and VFD Interface to PLC and SCADA	1	Module-1 Interface of different sensors (Temp. CT, VT. OPTO) and DRIVE (VFD) to PLC& SCADA.
2 <sup>nd</sup> Semester	SCADA- Compatible with Fixed Brand of PLC	7	Module-I  Introduction of SCADA  Module-II  Introduction to Rs-View 32  Module-III  Toolbary  Module-IV  Wizards  Module-V  Rs-View 32SCADA  Features  Module-VI  Rs-View 32  SCADA Features  Module-VII  RS-View 32  SCADA Features
2 <sup>nd</sup> Semester	Distributed Control System	7	Module-1 Introduction of DCS Module-2

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		UNIVERSITY	Introduction toDCS 800F (ABB)  Module-3  Toolbars  Module-4  EngineeringStation
			Module-5  Process Station  Module-6  OperatorsStation  Module-7  Programming and SCADA
2 <sup>nd</sup> Semester	Power System Monitoring by HMI	7	Module-1 Introduction Module-2 Application Development Module-3 Working onSoftware Module-4 Control Window Module-5 Property WindowBasics
2 <sup>nd</sup> Semester	POWER SYSTEM SECURITY	3	Module-6 Designing of Application  Module-7 Different Dynamic Displays  Module-1 Introduction to Power System Operations in Power System State Estimation Optimal Power Flow
			Module-II Security Assessment  Module-III Security EnhancementRecent - Techniques
2 <sup>nd</sup> Semester	DIGITAL SIGNAL PROCESSING APPLICATIONS IN POWER SYSTEM PROTECTION	3	Module-I  Abnormal States in Power Systemsand Criteria for Their Recognition Hardware and Functional Development of Protection Devices and Systems Fundamentals of System Analysis and Synthesis Infinite Impulse Response (IIR) Filters Finite Impulse Response (FIR) Filters Module-II Measurement Algorithms for Digital Protection Characteristic of Measurement of Criterion Values and Adaptive Algorithms Decision Makingin Protective Relays Application of Artificial Neural



Network

# Module-III

Genetic and Evolutionary Algorithms for Power System Protection Expert SystemsArtificial Intelligence: Summary and Hybrid Schemes

Annexure-C

# List of Skill courses (Basket) approved

Sl. No.	Course Title	Credit
1	Refraction Technology	4
2	Emergency Medical Technology	4
3	Medical Lab Technology	4
4	Operating Theatre Technology	4
5	Radiology Technology	4
6	Phlebotomy Technology	4
7	First Aid Service	. 1
8	General Duty Assistance Service	4
9	X- ray Technology	4
10	Retail Sales	4
11	Basketball	4
12	W made 3.1	4
	Gym Fitness	- 1 GB
13	Swimming	4
14	Yoga & Meditation	4
15	Solar PV Installation	4
16	Solar Lighting Technology	4
17	Solar PV Microgrid System	4
18	Solar PV Driven Equipment O/M & Assembly	4



# List of Domain courses approved

SI.	Domain Course Title	Credit	(T+P+P)
No 1	Fundamentals of industrial Automation  Design, Fabrication and Repair of transformer upto 33Kv level  Operation and Maintenance of Transmission and Distribution  Systems	24 26 30	6+14+10 2+16+8 12+12+6

# List of value added courses approved

		Hrs. of input
SI.	Course Title	
No	t and conquest	30 Hours
1	The Mind-Its mysteries and conquest	30 Hours
2	Understanding Personality-The Bhagavad	30 110013
	Gita Perspective	30 Hours
3	Understanding Leadership - The Valmiki	30 110013
	Ramayana Perspective	30 Hours
4	· Fming	30 Hours
5	Urban Kitchen gardens using Hydropomes	30 Hours
6	Introduction to PowerBI	30 Hours
7	Introduction to Python	30 Hours
8	Food & Nutrition	30 Hours
9	Rehavioural Economics	30 Hours
10	Nutrition for Healthy Living	30 Hours
11	a diet Resolution	30 Hours
12	Conder issues in Contemporary times	30 Hours
13 13	Natural Resource Management	30 Hours
	Rural Livelihood and Promotion	30 Hours
14	Leadarship in Organizations	
15	Introduction to Qualitative Research	30 Hours
16	Methodology	30 Hours
17	Knowledge Management	30 Hours
18	Professional Etiquette	

51. No	Name James 19 2	Designation/	Signature			
	Dr. P. K. Pradhan	Ex. Dinector  COM, GRIDCO	PRIZA			
2	Dr. A.B. Biswal	Properson, EEE CUTM,	\$			
3	DN. P. K. Hota	Popesson, EE USSUT, Bunka	Buno 12/6/19			
4	Prop. Jagannath Padhi	Director, CIT	Sunot 216119			
		HOD, BEE, CIT	22/06/19			
5	Mr. Amit Ku. Sahoo		gam Zuoón			
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# CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

# School of Engineering & Technology

# Department of Mechanical Engineering

Date: 22/06/2019

# MINUTES OF BOARD OF STUDIES MEETING held on 22/06/2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Mechanical Engineering was held on 22/06/2019 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

- 1. Prof. S. S. Mohapatra Professor, NIT Rourkela
- 2 Mr. Rabindra Saha, External Expert, Tata Technologies
- 3 Prof. Tapan Rath, Internal Expert
- 4 Prof. P. S. Rao, Internal Expert
- 5 Prof. Ramana Rao, Internal Expert
- 6 Prof. Ipsita Mishra, Internal Faculty
- 7 Prof. R. C. Mohanty, Internal Faculty
- 8 Prof. Sukant Nayak, Internal Faculty
- 9 Prof. Sudeep Kumar Singh, Internal Faculty

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Mechanical Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

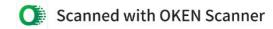
The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30/06/2018 were confirmed.

# Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Mechanical Engg.

The HoD, Mechanical Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2020-21.

- The syllabus was highly appreciated because the university follows Choice-based Credit system and courses relevant to the advancement in Mechanical Engineering are put in the syllabus.
- The members noted that the courses are mostly industry-oriented and also provide scope for competitive examination like UPSC, GATE etc. The members remarked that the syllabus is designed to enhance skill level of the students.





- The syllabus offers scope for gaining knowledge in other branches of engineering. Also offers scope to enhance on knowledge in Al, Machine learning, Nano Technology, Data science, SAP etc.
- The syllabus is best suited for each semester, but certain courses need to be modified.
- The syllabus is good but as compared to the content of syllabus, the credits are very less.
- The syllabus is quiet useful. There should be more practice subjects to increase student efficiency and skill.
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. (Annexure A.)
- Discussion on modification of syllabus of Basket-5.
- The domain course should be taught in practice and project mode.
- The Board approved the changes suggested in the Introduction to Hybrid and Electric Vehicles, Fluid Power Control, Renewable Energy Systems, Fundamentals of Heat Engine as per the latest Software and technology being used by the industry. List of existing courses where syllabus was changed in (Annexure B)

#### Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members.(Annexure C)

The HoD, Department of Mechanical Engg, extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET

Dean, SOET

Odisha

Dean, Academics

Dean - Academic

Centurion University of Technology & France Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050

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HoD, Mechanical Engineering



# List of new courses added

	SI. No	Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
	1	Quality Control and Reliability Engineering	Skill And Employability	3
	2	Fluid Power Control	Skill And Employability	3
	3	Introduction to Hybrid and Electric Vehicle	Skill And Employability	3
	4	Renewable Energy Systems	Skill And Employability	3
	5	Manufacturing Technology 1	Skill And Employability	3
	5	Manufacturing Technology 2	Skill And Employability	3
7		Design for Manufacturing	Skill And Employability	3
8		Finite Element Analysis	Skill And Employability	3
9		Digital Manufacturing	Skill And Employability	3
10		Fundamentals of Heat Engine	Skill And Employability	3
1 1		Design of Thermal Energy Systems	Skill And Employability	3
12	- 1	Mechanics of Machines	Skill And Employability	3
13		Strength of Material	Skill And Employability	3
14	T	Design of Transmission ystems	Skill And Employability	3
15	ar	luid Mechanics nd Heat ransfer	Skill And Employability	3
16	Α	troduction to utomobile ngineering	Skill And Employability	3
17	Op Au	ntrepreneurship oportunities in utomobile ade	Skill And Employability	3
18		intenance of tomobile	Skill And Employability	3
9	Design of Basic Sk Automobile Components		Skill And Employability	3
0		systems of	Skill And Employability	3



		University	
	Automobile		
21	Design and	Skill And Employability	3
	Maintenance of		
	Electric Vehicles		
22	Project	Skill And Employability	3
23	Internship	Skill And Employability	3
24	Jigs and Fixtures	Skill And Employability	3
25	Process Planning	Skill And Employability	3
23	and Cost	, , .	
	Estimation		
26	Conventional	Skill And Employability	3
20	Machining for		
	Cylindrical		
	Shape		
	Component		
27	Conventional	Skill And Employability	3
21	Machining for	Skill Alid Elliploydollity	
	Prismatic Shape		
	,		
20	Component	Skill And Employability	3
28	CNC Machining	Skill And Employability	3
29	Non-Traditional	Skill And Employability	
	Machining and		
	3D Printing	Skill And Employability	3
30	Wood	Skill And Employaumty	
	Engineering	Clill A. J. Frankrichility	3
31	Project	Skill And Employability	3
32	Internship	Skill And Employability	3
33	Joining Processes	Skill And Employability	
	& Technology		3
34	Arc Welding,	Skill And Employability	
	Gas Welding &		
	Brazing		3
35	Metal Transfer &	Skill And Employability	3
	Weld Metallurgy		
36	Design of	Skill And Employability	3
	Welded Joints		
	(CATIA)		
37	Welding of	Skill And Employability	3
	Stainless Steel,		
	Aluminium,		
	Copper, Cast		
	Iron and Hard		
	Surfacing		
38	Testing of	Skill And Employability	3
30	Welded Joints	Skin Tilla Billprojatilis	
	(DT, NDT &		
	Microstructure)	Chill And Employability	3
39	Project	Skill And Employability	3
40	Internship	Skill And Employability	1 2



### Annexure-B

List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
111	Introduction to Hybrid and Electric Vehicles	2	One module has been added and another module is partly modified depending on the industry requirement
TV	Fluid Power Control Renewable Energy	2	One module has been added depending on the industry requirement  One module has been added and another module is partly modified depending on the industry requirement
	Systems Fundamentals of Heat Engine	1	One module has been added depending on the industry requirement



# List of Skill courses (Basket) approved

Sl. Course Title		Credit	(T+P+P)
No			0+2+1
1	Solar PV Installation	3	
2	Solar Lighting Technology	3	0+2+1
2	Solar PV Microgrid System	3	0+2+1
4	Solar PV Driven Equipment O/M &	3	0+2+1
	Assembly		0+2+1
5	Solar Thermal Engineering	<u> </u>	01211

List of Domain courses approved

	Domain Course Title	Credit	(T+P+P)	
No		24	8+12+10	
1	Automobile Engineering	24	0.0	

List of value-added courses approved

SI.	Course Title	Hrs. of input
No	Introduction to python	30
1	Gender issue	30

Agenda - Approval of Mechanical engineering
Basket IV and Basket V Syllabus
Tak 2018 Batch Students, 19 Data - 22/06/19 Namue - Cad lab, CIT Comput Jatani. Member Propost - Synature 1. Prof. 8. 2 Monapatra CNIT Rountela) Sof Smahap 2. S. Mohanty (Nilashal Topat Nigam Ltd) Asaf 3. Mr. Rabindra Sab ( with, BBCR) 4. Prof. P. e Rao Com, pro ) here 5. Dr. A. M Mohamby (PRO. VC) for July (Date )
6. Mr. Tapon Rath (CUTM, BBSR) - July (Date )
7. Dr. R. C Mohamby (CUTM, BBSR) - July (Some of moderate )
8. Prof. Amount Mallier (CDIM, PRD) fruit moderate. 9. Prajona Panamuto Debuta (HOD, ME) N 10. Mns Posita Muhra 11. MR M.K Rath. 12 Sudeep Kuman Singh ( Aut Prey Mechanical Eng)



#### CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

#### **School of Forensic Sciences**

Date: 30.06.2019

#### MINUTES OF BOARD OF STUDIES MEETING held on 30.06.2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Forensic Sciences was held on 30.06.2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

- 1. Dr. Gurudutta Pattnaik, Principal, SoPLS
- 2. Mr. Mahesh Patnaik, Director, HVET
- 3. Dr. Debashish Jena, Associate Professor, Dept of CSC, IIIT, BBSR
- 4. Mr. Gyanranjan Panigrahi, Assistant Professor, BJB Autonomous College, BBSR
- 5. Ms. Shruti Rajwar, Assistant Professor, School of Forensic Sciences, CUTM

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dr. Gurudutta Pattnaik, **Principal, SoPLS and SoFS** presented acheivements and improvements of the department in the areas of academics and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 30-06-2018 were confirmed.

### Agenda 2: Discussion and approval on any revision required in the Curriculum of M.Sc. Forensic Science

- The Principal, SoFS gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on the feedback, it was decided that the same syllabus will continue. The curriculum was passed by BOS without any changes.
- No new courses were introduced in M.Sc. Forensic Science.

# Agenda 3: Introduction of B.Sc. Forensic Science programme and discussion on Course curriculum and credit system.

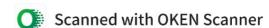
- Syllabus recommended by UGC was referred for the same and expert feedback was also considered while framing the curriculum.
- Type of curriculum: CBCS
- Duration of Programme: 3 yrs
- The Board approved the courses of Program. Total 38 no. of courses were approved. (Annexure-I)

Agenda 4: Introduction of M.Sc. Cyber Security & Digital Forensics programme and discussion on Course curriculum and credit system.

 Syllabus recommended by UGC was referred for the same and expert feedback was also considered while framing the curriculum.

Centurion University of Technology & Management

Page | 4





- Duration of Programme: 2 yrs
- The Board approved the courses of Program. Total 16 no. of courses were approved. (Annexure-II)

Dr. Gurudutta Pattnaik, Principal, SoFS & SoPLS extended sincere thanks to all members of the Board. The meeting ended with a vote of thanks to the Chair.

Principal, SoPLS & SoFS

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Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050

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# ANNEXURE

# List of New Courses of B.Sc. Forensic Science

il, No	Course Title	Type(Skill/Employabili ty/Entrepreneurship	Credit
	Semester l		
	RSESO401 - Basics of Forensic	Skill	0
1.	BSES0402 - Crime and Society	Skill	6
2.	BN 20405 - Clinic and Society	Skill	2
3.	Ability enhancement Course Generic Elective	Skill	6
4,	Generic Elective Semester II		
		Skill	6
5,	BSFS0403 - Criminal Law	Skill	6
6,	BSFS0404 - Forensic Psychology	Skill	2
7.	Ability enhancement Course	Skill	6
8.	Generic Flective Semester III	Diffit	
		Employability & Skill	6
9,	BSFS0405 - Forensic Dermatoglyphics	Employability & Skill	6
10.	BSFS0406 - Technological Methods in Forensic	Employability & Skill	ti
11.	SSRS0407 - Criminalistics	Skill	2
12.	Ability Enhancement Elective (Skill Based) course	Skill	6
13.	Generic Elective Semester IV	OKIII	
STATE OF THE PARTY OF THE PARTY.		Employability & Skill	6
14.	BSFS0408 -Forensic Chemistry	Employability,	O
15.	BSFS0409- Questioned Documents	Entrepreneurship & Skill	6
A RESIDENCE AND A STATE OF THE PARTY OF THE	and the same of th	Employability & Skill	6
16.	BSFS0410 - Forensic Blology	Skill	2
17.	Ability Enhancement Elective (Skill Based) course	Skill	6
18.	Generic Elective Semester V	DKIII	The second second second
WC CONCERNO		Employability & Skill	6
19.	BSFS0411 - Forensics Ballistics	Employability & Skill	6
20.	BSFS0412 - Forensic Toxicology	Employability & Skill	6
21.	Discipline Specific Elective (DSE)	Employability & Skill	6
22.	Discipline Specific Elective (DSE)  Semester VI	Ettipio filositei ex ostili	THE REPORT OF THE PARTY OF
orangement and the features	BSFS0413 - Forensic Anthropology	Employability & Skill	6
23.	BSFS0414 - Forensic Medicine	Employability & Skill	6
24.	Discipline Specific Elective (DSE)	Employability & Skill	6
25.	Discipline Specific Elective (DSE)	Employability & Skill	6
26.	ABILITY ENHANCEMENT CO	THE REPORT OF THE PARTY OF THE	ng legisment's trees
77	BSFL1101 - English	Skill	2
27.	FCBS0101 - Environmental Science	SkIII	2
28.	BILITY ENHANCEMENT ELECTIVE (SKILL BASED) COUR	AND AND THE RESIDENCE OF THE PARTY OF THE PA	
with the state of the potter	BSSE0201 - Introduction to Biometry	Skill	2
29,	BSSE020 - Handwriting Identification and	Skill	2
30,	Recognition DISCIPLINE SPECIFIC ELECTIVE (D:	the production of the party of	To the second second

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	CHITCHSITI		
31.	DEFS0401 - Digital Forensics	Employability & Skill	
32.	DEFS0402 - Economic Offences		6
33.	DEFS0403- Forensic Serology	Employability & Skill	6
34,	DEFS0404 - Accident Investigations	Employability & Skill	6
35.		Employability & Skill	6
	DEFS0405 - DNA Forensics	Employability & Skill	6
36.	DEFS0406 - Audio Recognition and Video Analysis	Employability & Skill	6
37.	DEFS0407 - Explosive Analysis and Post Blast	Employability & Skill	6
38.	ന്റെട്ടായ് ഈ Sio Quality control and Quality Assurance	Employability & Skill	-
	GENERIC ELECTIVE (CE)		6

## **GENERIC ELECTIVE (GE)**

Subjects From other Disciplines (One each in Semester I, II, III, IV)

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## ANNEXURE-II

List of new courses of M.Sc. Cyber Security and Digital Forensics

SI. No	Course Title	Type(Skill/Employability ty/Entrepreneurship	Credit
	Semester I		
1.	MSCS1101 - Principles of Information Security Employability		4
2.	MSCS1102 - Digital Forensics	Employability	6
3.	MSCS1103 - Computer Networks	Employability & Skill	6
4.	MSCS1104 - Cyber Crime & Investigations	Employability & Skill	4
5.	MSCS1105 - Intellectual Property Rights	Employability	4
	Semester II		
6.	MSCS1201 - Number theory & Cryptography	Employability & Skill	4
7.	MSCS1202 - Advanced Information Security	Employability & Skill	4
8.	MSCS1203 - Cyber Forensics	Employability & Skill	6
9.	MSCS1204 - System and Network Security	Employability & Skill	6
10.			4
	Semester III		
11.	MSCS2101 - Mobile Security Analysis	Entrepreneurship	6
12.	MSCS2102 - IT Governance, Risk and Compliance	Entrepreneurship	4
13.	MSCS2103 - Business Continuity Planning (BCP) And Disaster Recovery (Dr)	Skill	4
14.	MSCS2104 - Penetration Testing & Vulnerability Assessment	- Lmnlovahility LE	
15.	MSCS2105 - Digital Frauds	Employability	4
	Semester IV		
16.	MSCS0301 - Project/Dissertation	Employability 2	24

Members Present: Signeture O Dr. Debasish Jena, (EXTERNAL) Associate Professor Dept of CSC, IIIT, Bhubaneswar 1 Mr. Mahesh Pattnaik (INTERNAL) 22/06/19 3) Mr. Gyana Ranjan Panigrahi (4) Prof Gurudutta Pattnaik (INTERNAL) (5) Ms Strute Rajwar (INTERNAL) 22.06.19



# CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

# School of Paramedics and Allied Health Sciences

Date: 22/06/2019

# MINUTES OF BOARD OF STUDIES MEETING held on 22/06/2019

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 AM

The Board of Studies (BoS) meeting of School of Paramedies and Allied Health Sciences was held on 22/06/2019 at 11 AM in the Board Room, CUTM Bhubaneswar.

The following members were present:

- 1. Dr. Debi Prasad Rath, M.D. Pathology
- 2. Dr. Debasish Sahoo, M.D. Microbiology
- 3. Dr. Amalendu Choudhary, Hi-Tech Medical College and Hospital
- 4. Prof. Sunil Kumar Jha, Dean SoPAHS
- 5. Dr. Soumya Jal, HoD SoPAHS
- 6. Ms. Sonali Dash, Faculty SoPAHS

All the members were welcomed to the session by the Chairperson and were briefed regarding the purpose of the meeting. Thereafter, the Dean of SoPAHS presented on the achievements, improvements of the department in terms of academics and infrastructure.

Following are the programs offered by SoPAHS:

MSc Medical Laboratory Technology (MSc MLT)

MSc Applied and Clinical Microbiology (MSc CMB)

BSc Medical Laboratory Technology (BSc MLT)

BSc Clinical Microbiology (BSc CMB)

BSc Medical Radiation Technology (BSc MRT)

BSc Optometry (BSc Optom)

# Agenda of the meeting:

Agenda 1: The minutes of the last meeting of the BoS held on 30.06.2018 were confirmed.

Agenda 2: Discussion and approval on the content of syllabus for various courses of SoPAHS.

At first, the Dean of the school presented the feedback received from several stakeholders, on the curriculum of its various departments. With respect to the feedback received from the stakeholders, the committee discussed and approved for incorporation/ modifications in the curriculum for the Academic session 2019-18.



- The nomenclature for BSc Radiology and Imaging Technology was changed to BSc Medical Radiation Technology (BSc MRT) based on the requirement of the DMET council, Odisha.
- The structure and content for the courses of BSc Medical Radiation Technology, BSc Optometry were discussed and approved without any further revision.
- The committee approved to introduce the following programmes in SoPAHS: Bachelor of Physiotherapy; BSc MLT (Work Integrated); BSc Anaesthesia Technology;

BSc OT-AT.

- Based on the feedback received from the stakeholders to incorporate more practical aspects, the committee approved modifications into the curriculum of the MLT; MSc MLT; BSc CMB; MSc CMB.
- Clinical Pathology was incorporated to the syllabus of MLT and CMB departments, based on the industrial need.
- It was also suggested to incorporate molecular diagnostic techniques into the curriculum of MLT and CMB.
- The committee discussed to emphasize on the research-based learning of the students, and therefore, Mini project was incorporated into the curriculum.
- The courses were structured to enhance the skill and industry-based learning and to improve scopes for competitive examinations.
- New courses added into the curriculum are provided in Annexure A.
- Modifications in syllabus are provided in Annexure B.

# Agenda 3: Inclusion of courses on Domain, life skills and value addition

For their overall development and wellbeing of the students, it was advised that students enroll in the various life skills and value-adding courses that are offered by the university. The Board members agreed and gave their approval to the same.

Deatials of Domain courses, life skill and value added courses introduced are mentioned in Annexure *C*.

The Dean, SoPAHS extended sincere thanks to all the members of the Board.

The meeting ended with a vote of thanks to the Chair.

Sunil Kumar Jha

DEAN

the of Paramedics & Allied Health Sciences · -ity of Technology & Management

Odisha-752050

Dean, Academics

Dean - Academic Centurion University of Technology & Management

Bhubaneswar, Khurda, Odisha-752050

sociate Professor & HOD

School of Faramedics & Alliad Health Sciences Contribut University of Technology & Management Remachendrapur, Ehabaresser - 752660



## Annexure A

List of new courses added

-	Course Title	Type (Skill/	Credit
SI.		Employability/	
No	'	Entrepreneurship)	
	MSc MLT		
1.	Clinical Pathology lab	Entrepreneurship	2
2,	Microbiology lab	Entrepreneurship	2
3,	Immunology lab	Employability	2
4.	Biochemistry lab	Employability	2
5.	Histopathology lab	Employability	2
6.	Mini Project	Employability	2
	MSc CMB	11	4
1.	Clinical Pathology	Entrepreneurship	2
2,	Parasitology and Mycology lab	Employability	2
3.	Immunology lab	Employability	2
4.	Histopathology lab	Employability	2
5	Biochemistry lab	Employability	2
6	Mini Project	Employability	
	BSc MLT	Entrepreneurship	2
1	Clinical Pathology lab	Entrepreneurship	2
2	Microbiology lab	Entrepreneurship	4
3	Molecular Biology	Employability	2
١,	Immunology lab	Employability	2
ί,	Histopathology lab	Employability	2
	Biochemistry lab	Employability	2
	Parasitology lab	Employability	2
	Mycology and Virology lab	Employability	2
	Mini Project	Employability	
	BSc CMB	Entrepreneurship	2
	Clinical Pathology lab	Entrepreneurship	2
	Microbiology lab	Employability	2
	Virology and Mycology lab	-	4
	Analytical Biochemistry	Employability	2
	Industrial Microbiology lab	Employability	2
	Public Health Microbiology lab	Employability	2
	Biochemistry lab	Employability	2
-	Diagnostic Bacteriology lab	Employability	
-	Mini Project	Employability	2



# List of existing courses where syllabus was changed

Basket/ Semeste r	Name of Course	No. of Modules/Topic s revised	Revised Modules/Topics (details)
MSc		,	
MLT	Decemb	3	Credits modified from 4 to 3
	Research	J	credits based on experts'
	Methodology		guagestion
	I amalomi	1	Cells and organs of Immune
	Immunology and Parasitology		auntom
		1	Credits modified to 10 credits
	Project	•	based on experts suggestion
	Research	3	Credits modified from 4 to 3
	Methodology		credits based on experts'
	Methodology		guagestion
	Immunology	1	Cells and organs of Immune
	and Parasitology		system
MSc	allu i arasitology		
CMB			Credits modified from 4 to 3
01.12	Research	3	credits based on experts'
	Methodology		suggestion
			Credits modified to 10 credits
	Project	1	based on experts suggestions
			Credits modified to 10 credits
	Internship	1	based on experts suggestion
			based on experts - 30
BSc			
MLT		2	Electrophoresis and
	Analytical	2	Chromatography was included
	Biochemistry		based on industry requirement
		3	Credits modified from 4 to 2
	Basic Computer	3	credits based on experts'
	and Information		suggestion
	Science		Credits modified from 4 to 3
	Introduction to	3	credits based on experts'
	Ouality and		
	Patient Safety		Credits modified from 4 to 3
	Medical Law	3	credits based on experts'
	and Ethics		-unagetion -
	w =		Credits modified from 4 to 3
	Research	3	credits based on experts'
	Methodology		- action
	11101110 = 21-07	A	suggestion Credits modified to 10 credits
	Project	1	based on experts suggestion
	110,000		Credits modified to 10 credits
	Internship	1	based on experts suggestion
			Dased on expense 5-80
BSc			



	Public Health	3	Credits modified from 4 to 3
	Microbiology		credits based on experts'
			suggestion
	Industrial	3	Credits modified from 4 to 3
	Microbiology		credits based on experts'
			suggestion Credits modified from 4 to 2
	Basic Computer	3	credits based on experts'
I I	and Information		suggestion
	Science	2	Credits modified from 4 to 2
	Epidemiology	2	credits based on experts'
			suggestion
T	Diagnostic	3	Credits modified from 4 to 3
	acteriology	J	eredits based on experts'
	acteriology		suggestion
I N	ledical Law	3	Credits modified from 4 to 3
1	nd Ethics		credits based on experts'
			suggestion
Re	esearch	3	Credits modified from 4 to 3
M	ethodology		eredits based on experts'
			suggestion
Pro	oject	1	Credits modified to 10 credits
	-		based on experts suggestion
Inte	ernship	1	Credits modified to 10 credits
			based on experts suggestion





### Annexure C

List o	f Domain courses approved Domain Course Title	Credit	(T+P+P)
No		28	(14+8+6)
1.	Microbiology Medical Lab Technician	28	(12+10+6)
3.	Radiology and Imaging Technology	30	(14+10+6)

List	of Skill courses (Basket) approved	Credit	(T+P+P)
Sl.	Course Title	0.00	
No		4	0+3+1
1.	Ophthalmic Lens and spectacle		
	manufacturing Techniques	4	0+3+1
2.	Medical Diagnostic Techniques	4	0+3+1
3.	Refraction Technology		0+3+1
4.	Emergency Medical Technology	4	0+3+1
5.	Medical Lab Technology	4	0+3+1
6.	Operating Theatre Technology	4	0+3+1
	Radiology Technology	4	0+3+1
7	Phlebotomy Technology	4	0+3+1
8.	First Aid Service	4	0+3+1
9	General Duty Assistance Service	4	
10.	General Duty Assistance Service	4	0+3+1
11.	X- ray Technology		

List of value-added courses approved

List o	f value-added courses approved	Hrs. of input
SI.	Course Title	
NT.	(20115)	30 hrs
	Human Rights (FCMG0115)	30 hrs
2.	Gender Issues in Development (FCMG0401)	

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**Board of Studies** 

## CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

# School of Applied Sciences Department of Chemistry

Date: 30.06.2018

## MINUTES OF BOARD OF STUDIES MEETING held on 30.06.2018

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Chemistry was held on 30.06.2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

- 1. Dr. Prafulla Kumar Sahoo ,Utkal University (Subject expert)
- 2. Dr. SK Biswal (Dean SoAS), CUTM, BBSR Campus
- 3. Dr.Dojalisa Sahu(HoD, Chemistry), CUTM, BBSR Campus
- 4. Dr Chandana Adhukari, CUTM, Rayagarh Campus
- 5. Dr Suman Panda, CUT M, Bolangir Campus
- 6. MLN Acharyulu, CUTM, VIZAG Campus

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Chemistry presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

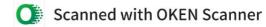
Agenda 1: The minutes of the last meeting of the BoS held on 12.06.2017 were confirmed.

Agenda 2: Discussion and approval in the domain content(Pharmaceutical Chemistry) Curriculum of B.Sc (Hons.)

- The B.Sc. (Hons.) core syllabus is not changed only one domain course is introduced. The syllabus of the domain (Pharmaceutical Chemistry) is prepared by the following pharmacy council of India syllabus. (Annexure-1)
- The domain syllabus is received by the external members Prof (Dr.) Prafulla Kumar Sahoo. The syllabus has been recommended for the implementation in the coming semester for 2018-2019 batch.

# Agenda 3: Discussion and modification in B.Tech (CBCS) for Basket-I to be approved

Dr MLN Acharyalu has suggested some modification in the B.Tech (CBCS)Basket –l syllabus. However, the members of BOS has not been recommended the said modification for immediate implementation(Annexure-2)





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**Board of Studies** 

#### Agenda 4: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure-3)

The HoD, Department of Chemistry. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean,SoAS

DEAN

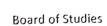
Dean, Academics

Dean - Academic

Centurion University of Technology & Management

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Bhubaneswar, Odisha





# Annexure I

# B. Sc. Chemistry Syllabus (III to VI semester)

Type of curriculum; CBCS/Elective/NEP: B.Sc : CBCS

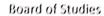
## List of new courses added

List	of new courses added		Credit
Sl.	Course Title	Type(Skill/Employability/	Credit
No		Entrepreneurship	
		B.Sc( Semester -III)	6
1	Inorganic chemistry-II	- 1 1114 ·	O
		Employability	6
2	Organic Chemistry-II	Employability	6
3	Physical Chemistry-III	Employability	6
4		F11:47	·
	Inorganic Chemistry-III	Employability  D.G. (Samuester, IV)	
		B.Sc( Semester -IV)	6
			0
		Employability	
1	Organic Chemistry-III	1 111	6
2	Physical Chemistry-IV	Employability	6
3	Organic Chemistry-IV	Employabilityand Skill	
4		Employability and Skill	6
•	Physical Chemistry-V		
		B.Sc( Semester -V)	
5	Inorganic Chemistry-IV	Employabilityand Skill	6
<u>5</u>	Organic Chemistry-V	Skill	6
	Environmental Science	Employability and Skill	6
7	Industrial Chemicals and		6
3		Employability	
	Environment  Leaving Materials of		6
9	Inorganic Materials of	Skill	
Í.,	Industrial Importance		6
10	Research Methodology	Skilland Employability	
	for Chemistry	B.Sc( Semester -VI)	
		B.Sc( Semester - 11)	
			6
11	Instrumental Methods of		
	Chemical Analysis	Skill	6
12	Basic Pharmaceutical	Skill	U
	Chemistry	병합 (2007년 12년 대) - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1	6
13	Analytical Clinical	Skill	U



Board	O.t	ST	111	105
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7.71	C ( tunner	• •		
		Biochemistry		
	14	Green Methods in Chemistry	Skill	6
	15	Basic Analytical	Skill	6
		Chemistry		

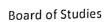




## Annexure-II

# BASKET - I (B.Tech-All programs)

Course Code	Course Title	Course Type	Credits	Prerequisite	Department Offering
FCBS0401	Applied Analytical Chemistry	Theory + Practice	3	Nil	Chemistry
FCB80402	Industrial Chemistry	Theory + Practice	3	Nil	Chemistry
FCBS0403	Applied Engineering  Materials	Theory + Practice	3	Nil	Chemistry
FCBS 0101	Environmental Science	Theory	3	Nil	Chemistry





# Annexure-III List of Value added courses

### List of Skill Courses

Sl. No	Course Title	Type(Skill/Employability/Entrep reneurship	Credit
			2
1	Basic Herbal Technology	Skill	2
2	Extraction and Isolation of Drugs	Skill	2
3	Chemical Identification of Drugs	Skill-Chemical identification of drugs	
4	Chemistry of Biomolecules	Employability and Skill	4
-			4
5	Physical Chemistry of Pharmaceuticals	Employability and Skill	4
6	Essentials of Pharmaceutical	Employability and Skill	4
Ĭ	Chemistry		4
7	Analytical Techniques for	Employability and Skill	
	Pharmaceutical Drugs		6
8	Project	Skill	



3. Dr. MLN Acharyulu has buggested the Said modification for Emmideali implementation 30th June 2018



## CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

#### School of Engineering & Technology

#### **Department of Civil Engineering**

Date: 30/06/2018

### MINUTES OF BOARD OF STUDIES MEETING held on 30/06/2018

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 30/06/2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar.

The following are the members:

- 1. Prof. C.N.V. Satyanarayan Reddy, Professor, Dept. of Civil Eng., Andhra University
- 2. Prof. Manoj Ku Rath, Prof. Dept. of Civil Engg, CUTM, BBSR Campus
- 3. Prof. R. C. Padhy, General Major
- 4. Dr. Siba Mishra, Assosiate Prof. Dept. of Civil Engg, CUTM, BBSR Campus
- 5. Prof. Prafulla Kumar Panda, HOD Dept. of Civil Engg, CUTM,PKD Campus
- 6. Prof. Sagarika Panda, HOD Dept. of Civil Engg, CUTM, BBSR Campus

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 12.06.2017 were confirmed.

# Agenda 2: Approval for B.Tech Civil Engineering Course structure and syllabus for basket 3 and 4 of CBCS system.

The HoD, Civil Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2017-18.

- Contact hour need to be less and more hours should be allotted for practice.
- As per the AICTE Regulation, to give extra 20 credits for specialization as major degree and minor degree.
- Subject wise feedback was given for courses in basket 3 and basket 4.
- This subject has been renamed in CBCS basket IV and the content has been modified.
- Two courses from each domain in basket V is to be carried over to basket IV as advanced learning.
- The new domain planning, design and drawing has been restructured and the new courses are to be incorporated. Architectural Design, Green building design, 3D modeling and VR experience of Building, Earthquake Resistant design, Barrier free design, and intelligent Building design with project and internship. (Annexure A)





The Board approved the changes suggested in the Hydraulics and hydraulics machines, Hydrology and water resources engineering, GIS and Digital cartography, Workshop Practice as per the latest Software and technology being used by the industry. List of existing courses where syllabus was revised in (Annexure B)

# Agenda 3: Inclusion of courses on Domain, skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure C)

The HoD, Department of Civil Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET

Dean, Academics Dean - Academic

Dean, SOET Centurion University of Technology & Management Dept. of Civil Engineering Centurion University of Technology & Managers . Bhubaneswar, Khurda, Odisha-752050

Centurion University of Technology & Management, BBSR



### Annexure-A

# List of new courses

SI. No	Course Title	Type (Skill/Employability/Entrepreneurship	Credit
1	Disaster Preparedness & Planning management	Entrepreneurship	2
2	Functional planning and DPR	Employability	3
3	Site Supervision & Measurement Methods.	Employability	4
4	Tendering Process, Bidding Contract Agreements & Arbitration.	Employability	3
5	Green Building Design	Employability	3
6	Barrier Free Design	Employability	2
7	Intelligent Building Design	Employability	2
8	3D Modelling and VR experience of Building	Skill Development	4
9	Geospatial Technology and its Application	Employability	5
10	Photogrammetry and its Application	Employability	4
11	Concrete Technology	Skill Development	2





### Annexure-B

# List of existing courses where syllabus was revised

Basket/ Semester	Name of Course	No. of Modules/To pics revised	Revised Modules/Topics (details)
IV	D. D. L. J. G.	1	One module has been added
	Pre-Fabricated Structures		depending on the industry requirement
V	T	2	One module has been added
	Transportation Engineering	-	depending on the industry requirement
V	W. a. I. O. W.	2	One module has been added and another
	Water supply & Waste water	-	module is merged with slight change as
	Management		per industry requirement
IV	Hydrology & Water Resources	1	One module has been added
	Engineering	•	depending on the industry requirement
IV	Quality Control and Risk	1	One module has been added
	Management in Construction	•	depending on the industry requirement
IV		1	One module has been added
	Geotechnical Investigations	•	depending on the industry requirement
IV	Repairs, Renovation and	1	One module has been added
	Rehabilitation of Structures	•	depending on the industry requirement
IV	Software Based Project	1	One module has been added
	Scheduling and Management	•	depending on the industry requirement
IV		1	One module has been added
	Earthquake Resistant Design	1	depending on the industry requirement
IV	Architectural Design	1	One module has been added
		1	depending on the industry requirement
IV	Remote Sensing & Digital Image	1	One module has been added
	Processing		depending on the industry requirement
IV	Lidar Remote Sensing and its	1	One module has been added
	Applications		depending on the industry requirement
IV		1	One module has been added
	Smart City Planning		
IV	2	1	depending on the industry requirement  One module has been added
	Geometric Modeling Lab	'	depending on the industry and is
IV		2	depending on the industry requirement  One module has been added
	Hydraulics & Hydraulic Machine	1	depending on the industry was a
IV	P. P.1.	1	depending on the industry requirement  One module has been added
	Pre-Fabricated Structures		
IV	Farm dat's Fig. 1	1	depending on the industry requirement  One module has been added
	Foundation Engineering		depending on the industry requirement
IV	Computer Aided Design of	1	One module has been added
	Concrete Structure		depending on the industry requirement
IV		2	One module has been added
	GIS and Digital Cartography	_	
IV	Construction Equipment	2	depending on the industry requirement  One module has been added
	Management	~	
IV		2	depending on the industry requirement  One module has been added
	Geotechnical Investigations	~	
IV	Software Based Project Scheduling	3	depending on the industry requirement  One module has been added
	and Management		
IV	Architectural Design	1	depending on the industry requirement  One module has been added

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O	depending on the industry requirement
IV Remote Sensing and Digital Image Processing	One module has been added depending on the industry requirement

## Annexure-C

List of Skill courses (Basket) approved

CI. N. Course Title Credit (T+P+P)			(T+P+P)
Sl. No	Course Title	CUTM3042	0+3+1
1	Introduction to Composite Manufacturing		0+3+1
2	3D Modelling and Printing	CUTM3043	
3	Precast Concrete Manufacturing	CUTM3045	0+3+1
4	Fabrication	CUTM3046	0+3+1
	Hi-Tech Surveying	CUTM3047	0+3+1
5		CUTM3048	0+3+1
6	Internet of Things		0+3+1
7	Mechatronics System Design	CUTM3049	
8	Introduction to Nanotechnology	CUTM3051	0+3+1
9	Drone Piloting	CUTM3052	0+3+1
10	Camera Operation	CUTM3053	0+3+1
		CUTM3054	0+3+1
11	Editor		0+3+1
12	Desktop Publishing	CUTM3055	
13	Introduction to Blender and Unity tools	CUTM3056	0+3+1

### List of Domain courses

	List of Domain Cours		Catanan
	Name of the Domain	Credit	Category
1	Cyber Security and Digital Forensic	20	A/B
2	Data Science and Machine Learning	26	A/B/D
3	Microbiology	28	A/C
4	Medical Lab Technician	28	A/C
5	Pharmaceutical Chemistry	20	A/B/C
6	Radiology and Imaging Technology	30	A/C
7	Unity Gaming	26	В
8	Cyber Security and Digital Forensic	20	A/B
9	Data Science and Machine Learning	26	A/B/D
10	Microbiology	28	A/C
11	Medical Lab Technician	28	A/C
12	Pharmaceutical Chemistry	20	A/B/C
13	Radiology and Imaging Technology	30	A/C
14	Unity Gaming	26	В

#### List of value added courses

Sl.	Course Title	Hrs. of input
No		
1	LSD-2	30
2	Conduct in daily Life-Insights from The Panchatantra	30
3	Human Rights	30
4	Renewable Energy	30
5	Data science & ML	30
6	Introduction to Nutraceuticals	30
7	Introduction to Tableau	30
8	Basics of Photography	30
9	Innovation Management	30
10	Effective Writing	30



11	Indian Culture and History 30	
12	Critical Thinking	30
13	Disability, Diversity and Development 30	
14	Intellectual Property Rights 30	
15	Emotional Intelligence 30	
16	Home remedies for healthy living 30	
17	Self-Management: Insights from Srimad Bhagavad Gita 30	

Proceedings of Board to Studies in ciril Englisheld on 30/06/2018 at Jahri Campul. Considered the syllabors Basket 324 and following occommendations were made. Recommendation - 1. Inclusion of soil mechanics in banket Iv as it is smoogly recommended. Recomendation - 2 of In foundation Engg. course, the following Changes are suggested. Mod 1: Shallow foundation Mod 2! Deep foundations. Mod 4: Earth prevune. A stability of slopes.

Mod 4: Computer aided desogn of shallow &
deep foundation. -> Module name: mention. \* Recommendation -3 of conc. parement design wrette flexible 4 rigid parement desagn à analyses, parement failures. Highway materials characterisation. Récommendatém-5 Credit reduction from one each, TE, QCCI, Functional planning & DPR. Juny 2 cm a suy. 9. Poof. C.H.V. Satyanogry neddy 3. General Most. R. C. Pally @92L-9. M. Siba mishra Bonto most poolulating



# CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

## School of Engineering & Technology

Department of Computer Science and Engineering

Date: 30.06.2018

# MINUTES OF BOARD OF STUDIES MEETING held on 30.06.2018

Venue: Board Room, CUTM, Bhubaneswar

Time: 10.00 a.m.

The Board of Studies (BoS) meeting of Department of Computer Science and Engineering was held on 30.06.2018 at 10 a.m. in the Board Room, CUTM Bhubaneswar. The following are the board members:

- 1. Dr. Debi Prasad Dogra, Asst. Prof, IIT, Bhubaneswar
- 2. Rajesh Francis V.P, Exuber Software Solutions
- 3. A Anurag, Pro Vice Chancellor, CUTM
- 4. K.V Kalyan, Asst. prof, CUTM AP
- 5. K. Santosh Chandra Rao, HOD., CSE, PKD
- 6. Dr. Prasant Kumar Mohanty, HOD, CSE, BBSR & Dean, SoET

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Computer Science Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 02.06.2017 were confirmed.

# Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Computer Science Engg.

- The HoD, Computer Science and Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2018-19.
- The Board approved the changes suggested in the existing syllabus and some new courses added as per the latest Software and technology being used by the industry .(Annex-1)
- B.Tech CSE Basket V domain courses revision has been made as per the latest Software and technology being used by the industry. (Annex 2)
- The board approved one-month orientation program to be conducted for new joining students where exposure on project, domain, value added course are to be given.
- To facilitate exposure on industry practice, boot camp activity and workshop to be conducted which was approved by the Board.



# Agenda 3: Inclusion of courses on life skills and value addition

For the students general development and wellbeing, it was recommended that students enrol in the different life skills and value-added courses the university offers. The Board members concurred and gave their approval to the same. (Annex 3 and Annex 4)

The HoD, Department of Computer Science and Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET

Dean, Academics

HoD, Computer Science & Engineering

Dean, SOET

Dean Academics

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## Annexure-1

No. of new courses added with credit

Sl. No	Course Title	Type(Skill/Employability/Entrepreneurship	Credit
	Programming for		3
	Problem Solving	_	
1	Java	Skill And Employability	
	Data Base		3
	Management		
2	System	Skill And Employability	
	Problem Solving	- In the Binpioyaemy	3
3	& Programming	Skill And Employability	
	Data Structures	OKITY THE Employaethly	4
	and C		
4	Programming	Skill And Employability	
5	Operating System	Skill And Employability	4
6	Big Data Analytic	cs   Skill And Employability	4
	Block Chain and	Skill Alid Elliployability	3
7	Smart Contracts	Skill And Employability	
	Programming	Skill Alid Elliployability	3
8	Internet of Thing	s Skill And Employability	
	Al Tools,	S Skill Alid Elliployability	4
	Techniques and		
9	applications	Skill And Employability	
	Cloud Computing		4
	and its		
	applications using	α	
10	Linux OS	Skill	
10	Problem Solving	SKIII	3
1.1	using Python	Skill And Employability	
11	Object Oriented	Skiii Alid Ellipioydollity	4
	Programming		7
	through Java	Skill And Employability	
12	Web Technologie		4
13		Skiii Alid Employaomty	4
	Software	α	4
	Engineering using	Skill	-91
14	Agile		12
15	Internet of Thing	S Skill Alid Employability	3
	Build your own	Skill And Employability	2
16	Computer		
148	Cloud Computing	Skill And Employability	4
17	Application	Skiii Alid Diripioyability	
auti	Mobile App	Skill And Employability	4
18	Development	Skin And Employability	
115	Introduction to		3
	Gamming &	Skill And Employability	
19	Simulation	Skill And Employability	
1000	Introduction to	Skill And Employability	3
20	Cyber Security	Skill And Employability	
20	AI & ML using	Skill And Employability	3
21	Python	Lakin vind rampioyability	



		University	
	Object Oriented	UNIVERSITY	4
	Analysis and		
22	Design	Skill And Employability	
	Systems	Okin And Employability	4
23	Programming	Skill	
	Computer	OKIII	3
24	Networks	Skill And Employability	
	Cloud	OKIII Alid Ellipioyaoviivy	4
25	Infrastructure	Skill And Employability	
26	Project	Skill And Employability	2
	Computer	Skiii Alid Employability	3
	Organization and		
27	Architecture	Skill And Employability	
	Formal Language	Skill Alid Elliployablisty	4
	and Automata		
28	Theory	Skill	
	Design Analysis	OKIII	4
29	and Algorithms	Skill	
	Network Security	OKIII	3
30	and Cryptography	Skill	
	Data Warehousing		4
31	and Data Mining	Skill	
	Introduction to		4
	Gamming &		
32	Simulation	Skill And Employability	
	Game Assets &		4
33	Game Objects	Skill And Employability	
	Building Game		4
34	Environment	Skill And Employability	
	Game Animation,		4
35	Scripting & UI	Skill And Employability	
	Binary		4
	Deployment and		
	Cross-Platform	l	
36	Controls	Skill And Employability	



List of existing courses where sullab

Basket/	total courses where syllabus was revised		
Semester	Name of Course	No. of Modules/Topics revised	
IV	Operating System	Introduction: Architecture, Goals & D.S. & Structures of O.S. Basic functions, Interaction of O. S. & D.	



### Appendix 2

## **Domain Courses**

1	Cyber Security and Digital Forensic	20	A/B
2	Data Science and Machine Learning	20	
3	Microbiology	26	A/B/D
4		28	A/C
-	Medical Lab Technician	28	A/C
3	Pharmaceutical Chemistry	20	A/B/C
6	Radiology and Imaging Technology	30	A/C
7	Unity Gaming		D.
		26	В



#### Annexure-3

# Skill Courses approved by the University

Course Name	Course Code	Credit
Introduction to	Course con	4
Composite		
Manufacturing	CUTM3042	
3D Modelling and		4
Printing	CUTM3043	
		4
	CUTM3045	
	CUTM3046	4
		4
		4
		4
	CUTM3049	
		4
	CUTM3051	
	CUTM3052	4
		4
		4
	And the second s	4
		4
1	CUTM3056	
		4
Manufacturing	CUTM3042	
	Composite Manufacturing  3D Modelling and Printing Precast Concrete Manufacturing Fabrication Hi-Tech Surveying Internet of Things Mechatronics System Design Introduction to Nanotechnology Drone Piloting Camera Operation Editor Desktop Publishing Introduction to Blender and Unity tools Introduction to Composite	Introduction to Composite Manufacturing CUTM3042  3D Modelling and Printing CUTM3043  Precast Concrete Manufacturing CUTM3045  Fabrication CUTM3046  Hi-Tech Surveying CUTM3047  Internet of Things CUTM3048  Mechatronics System Design CUTM3049  Introduction to Nanotechnology CUTM3051  Drone Piloting CUTM3052  Camera Operation CUTM3053  Editor CUTM3054  Desktop Publishing CUTM3055  Introduction to Blender and Unity tools CUTM3056  Introduction to CUTM3056



### Appendix 4

# Value Added Courses approved by the University

S NO	Cours		
1	Course Name LSD-2	Course Code	Credit
2		CUVA0011	30 Hours
3	Conduct in daily Life- Insights from The Panchatantra	CUVA0033	30 Hours
	Human Rights	CUVA0034	30 Hours
4	Renewable Energy	CUVA0035	30 Hours
5	Data science & ML	CUVA0036	30 Hours
6	Introduction to Nutraceuticals	CUVA0037	30 Hours
7	Introduction to Tableau	CUVA0038	30 Hours
8	Basics of Photography	CUVA0039	30 Hours
9	Innovation Management	CUVA0048	30 Hours
10	Effective Writing	CUVA0049	. 30 Hours
11	Indian Culture and History	CUVA0050	30 Hours
12	Critical Thinking	CUVA0051	30 Hours
13	Disability, Diversity and Development	CUVA0066	30 Hours
14	Intellectual Property Rights	CUVA0065	30 Hours
15	Emotional Intelligence	CUVA0063	30 Hours
16	Home remedies for healthy living	CUVA0062	30 Hours
17	Self-Management: Insights from Srimad Bhagavad Gita	CUVA0061	30 Hours
18	LSD-2	CUVA0011	30 Hours
9	Conduct in daily Life- Insights from The Panchatantra	CUVA0033	30 Hours

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like cland computing, Data Analytics, Agile Software Deyerlopment etc. were introduced.

- · Students were facilitated with more legge fore doing minor projects.
- \* No of new skill course are added with credit.

\* No f carevel partly modified:

SIND Coverse Fitte. Type credit Details of

1 operating System programming skill 3 30% content red

= 1No. of value calded course introduced.

- 1. Ar Debi Prosad Dogra, Asst. Prof. IIT Blubamenon, the
- 2. RAJESH FRANCIS, V.P. Exuber Sylware solutions, of
- 3. A. ANURAS, PVC, CUTM A
  - 4. K.- V. Kalyon Ast Porfessor OverMAD
  - 5. K. Santoshachandra Hop, CSE, CUTM Paralakhellandi Qua



## CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

#### School of Management

Date: 06.07.2018

#### MINUTES OF BOARD OF STUDIES MEETING held on 30.06.2018

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Management was held on 30.06.2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

- 1. Dr. Smita Mishra Panda, Director Research, CUTM
- 2. Dr. Anita Patra, Registrar, CUTM
- 3. Dr. Prasanta Kumar Mohanty, Dean, Academics, CUTM
- 4. Dr. Ashok Kumar Mohanty, Retd. Professor, Berhamur University
- 5. Dr. Rashmi Ranjan Parida, PGP Coordinator, CUTM
- 6. Dr. Pramod Kumar Patjoshi, Faculty, CUTM
- 7. Dr. Bibhunandini Das, Faculty, CUTM
- 8. Dr. Umakanta Nayak, Faculty, CUTM
- 9. Prof. Shiv Sankar Das, Faculty, CUTM
- 10. Prof. KVD Prakash, Faculty, CUTM
- 11. Dr. Bijay Bhujabal, Dean, SoM, CUTM

The Chairperson, CUTM welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean, SoM presented the achievements and improvements of the School in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

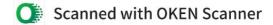
Agenda 1: The minutes of the last meeting of the BoS held on 12.06.2017 were confirmed.

#### Agenda 2: Discussion and approval on revision required in the Curriculum of MBA Program

- The Dean, SoM presented the MBA curriculum based on the feedback and suggestions made by the various stakeholders. Board discussed the curriculum throughly and approved the following suggestions for course revision to be implemented from the Academic Year 2018-19 (Annexure-I).
  - A new Area of Electives was introduced in Hospital Management with 48 credits.

# Agenda 3: Discussion and approval on revision required in the Curriculum of MBA-DM & ABM program

The Dean, SoM presented the MBA- DM&ABM syllabus developed in collaboration with representatives of Norwegian University of Science and Technology (NTNU) and suggestions made by the various stakeholders. The Board accepted and approved the curriculum to be implemented from the Academic Year 2018-19 (Annexure-II).





## Agenda 4: Discussion and approval on revision required in the Curriculum of BBA program

BBA syllabus was presented based on the suggestions made by the various stakeholders. The
Board accepted and approved the existing syllabus without changes for the academic year
Year 2018-19.

#### Agenda 5: Discussion and approval on revision required in the Curriculum of BBA program

B.Com syllabus was presented based on the suggestions made by the various stakeholders.
 The Board accepted and approved the existing syllabus without changes for the academic year.
 Year 2018-19.

#### Agenda 6: Inclusion of courses on life skills and value addition

Various courses were presented to be offered by the University in the areas of life skills and value addition for the overall improvement and well being of students. The same was agreed upon and approved by the Board members. (Annexure-III)

The Dean, SoM extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoM

School of Management Centurion University, Odisha Dean, Academics

Dean - Academic Centurion University of Technology & Management Bnubaneswar, Khurda - Caisna-752050



#### Annexure-I

List of new courses added in MBA

(1)   Sl.	Course Title	Type (Skill/	Credit
No		Employability/	
		Entrepreneurship	
Elect	ives of Semester III and IV		
1	Power Distribution Management	Employability	4
2	Power Plant System	Employability	4
3	Project Planning, Analysis and	Employability,	4
	Management	Entrepreneurship	
4	Electricity Industry Structure and Act	Employability	4
5	Integrated Energy Management & Power	Employability	4
	Planning		
6	Financing Energy Sector Projects	Employability,	4
•		Entrepreneurship	
7	Power Pricing & Power Purchase	Employability,	4
	Agreement	Entrepreneurship	
8	Power Trading	Employability	4
<del></del>	Power Station Management	Employability	2
10	Renewable Energy for a Sustainable	Employability,	4
LO	Future	Entrepreneurship	4
.1	Risk Hazard and Environment	Employability	2
	Energy Conservation & Update	Employability	4
2	Maintenance Management and Inventory	Employability	4
3			4
	Control		



#### Annexure-II

#### List of new courses added in MBA DM & ABM

Sl. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
Seme	ster-I		
1	Introduction to Indian Society	Employability	2
2	Marketing Management Employability & Entrepreneurship		4
3	Accounting for Managers	Employability & Entrepreneurship	4
Seme	ster-II		
3	Financial Management	Employability & Entrepreneurship	4
4	Sustainable Entrepreneurship Development	Employability & Entrepreneurship	4
5	Skill Ecosystem Development	Employability	4
6	Innovation and Regional Development	Employability	4
7	Project Management Employability & Entrepreneurship		4
Seme	ster-III		
8	Summer Internship	Employability & Entrepreneurship	8
9	Development and Globalisation	Employability	7.5
10	Global Production Network	Employability	7.5
11	Research Methods	Employability & Entrepreneurship	7.5
12	Gender Issues in Development	Employability	3.5
13	Introduction to Ethics	Employability	1
	ster-IV		
14	Development Action Research Thesis	Skill development	10
16	Agriculture Action Research Thesis	Skill development	10



#### Annexure-III

## Skill Courses approved by university

Sl. No.	Course Title	Credit
1	Introduction to Composite Manufacturing	4
2	3D Modelling and Printing	4
3	Precast Concrete Manufacturing	4
4	Fabrication	4
5	Hi-Tech Surveying	4
6	Internet of Things	4
7	Mechatronics System Design	4
8	Introduction to Nanotechnology	4
9	Drone Piloting	4
10	Camera Operation	4
11	Editor	4
12	Desktop Publishing	4
13	Introduction to Blender and Unity tools	4

#### Value Added courses approved by university

	Course Title	Credit
1	LSD-2	30 Hours
2	Conduct in daily Life-Insights from The Panchatantra	30 Hours
3	Human Rights	30 Hours
4	Renewable Energy	30 Hours
5	Data science & ML	30 Hours
6	Introduction to Nutraceuticals	30 Hours
7	Introduction to Tableau	
8	Basics of Photography	30 Hours
9	Innovation Management	30 Hours
10	Effective Writing	30 Hours
11	Indian Culture and History	30 Hours
12	Critical Thinking	30 Hours
13	Disability, Diversity and Development	30 Hours
14	Intellectual Property Rights	30 Hours
15	Emotional Intelligence	30 Hours
16	Emotional Intelligence	30 Hours
17	Home remedies for healthy living	30 Hours
,	Self-Management: Insights from Srimad Bhagavad Gita	30 Hours

# SIGNATURES OF MEMBERS

LNAL MEMBERS.

R. P.K. DAS

R. P.K. MISHRA

2. A.K. MOHANTY

SIUNATURES

ERNAL MEMBERS.

mof. ANITA PATRA (REGISTRAR)

MBG. KVD PRAKASH (DEAN-HERHED)

DOOK. BITAY BHUTABAL

P.K. MOHANTY not.

PAUL - UMAKANT NAYAK

SHIVSANKAR DAS Prot.

PAK. BIBHUNANDIN DAS

PAR. PRAMOD PATJOSHI

PNUT. RASHMI RANJAN PARIDA

SIGNATURES



#### CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

#### **School of Media and Communication**

Date: 06.07.2018

#### MINUTES OF BOARD OF STUDIES MEETING held on 30.06.2018

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 30.06.2018 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members were present:

- 1. Prof. Chandrabhanu Pattanayak, Director, SoMC, CUTM
- 2. Dr. Jayant Kumar Swain, Assistant Professor and Co-ordinator,PG Department of Journalism & Mass Communication, Ravenshaw University
- 3. Mr. Ashok Kumar Panda, Journalist
- 4. Dr. Ambika Sankar Mishra, HoD, SoMC

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 12.06.2017 were confirmed.

# Agenda 2: Discussion and approval on revision required in the Curriculum of MAMC

- The Director, SoMC gave a presentation based on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on that, the Board accepted and approved the incorporation of new courses to the syllabus for the academic year 2018-19 (Annexure-I)
  - o Courses on reseach methods, digital media and new electives were introduced

# Agenda 3: Discussion and approval on revision required in the Curriculum of BAMC

- BAMC syllabus was presented based on the suggestions made by the various stakeholders.
   The Board accepted and approved the incorporation of new courses in the syllabus for the academic year Year 2018-19 (Annexure-II).
  - O Courses on electronic, digital media and new electives were introduced

Agenda 4: Inclusion of courses on life skills and value addition





It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure-III)

The Director, SoMC extended sincere thanks to all members of the Board.  $\label{eq:condition}$ 

The meeting ended with a vote of thanks to the Chair.

Director, SoMC

Dean, Academics

HoD, SoMC

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050





#### List of new courses added in MA-MC

SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
1	Communication Research Methods	Skill development	4
2	Introduction to Print & Electronic Media	Skill development	4
3	Society, Media and Communication	Skill development	4
4	Advanced Digital Media	Skill development	4
5	Digital Media Platforms	Employability	4
6	Film studies	Employability	4
7	Advertising and Public Relations	Employability	4
8	Thesis	Employability	4
9	Camera Operator	Skills development	2
10	Video Editor	Skill development	4
11	Sound Engineer	Skill development	2
12	Adobe tools and illustrations	Skill Development and Employability	4
.3	Advance Skill Course	Skill Development	4





#### List of new courses added in BA-MC

SI. No	Course Title	Type (Skill/Employability/ Entrepreneurship)	Credit
1	Introduction to Print and Electronic Media	Skill Development	7
2	Introduction to Social Media	Employability	7
3	Electronic Media	Skill development and Employability	7
4	Film Studies	Employability	7
5	PR and Advertising	Employability	7
6	Digital Media	Skill Development	7
7	Camera Operator	Skill Development	7
8	Video Editor	Skill Development	7
9	Sound Engineer	Skill Development	7
10	Adobe tools and Illustrations	Skill Development	7





Skill Courses approved by university

SI. No.	Course Title	Credit
1	Apparel Production & Marketing	4
2	Line Stitching Supervising	4
3	Apparel Production	4
4	Light Motor Vehicle Driving	4
5	Fork Lift Operation	4
6	Heavy Vehicle Technology	4
7	Two Wheeler Service Technology	4
8	Four Wheeler Service Technology	4
9	E-Vehicle Assembly and Service Technology	4
10	Robotics	4
	Poultry Farming	4
12	CNC Programming (CAM)	4
13	Design Supervising Wooden and Modular Furniture	4

Value Added courses approved by university

value Auu	ed courses approved by aniversity	1
	Course Title	Credit
		30 Hours
1	LSD-2	30 Hours
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	30 110013
		30 Hours
3	Self defence for Girls	30 Hours
4	Digital Marketing	30 Hours
5	Bio-fertilizer	30 Hours
6	Gender Issues	30 Hours
7	Solid Waste Management	
		30 Hours
8	Smart Agriculture	30 Hours
9	Adobe Tools	

5. Medra Sustainability and International Communication, which were originally two papers have been merged to one paper Onder the nomenclature "Society Media, Society and Communication. 6. New electrices such as 1. Camera operator. 2. Video Editor 3. Sound Engineer 4. Animator 5. Adobe tools and 911 Ustrator have been included as Electives along with Other Electives which were there earlier These five courses are also stated to be delivered as three months carrificate Programmes in Collaboration with our partn "KOSHISH". 7. It is Enggested, that, the Bachelor and Masters Courses be oxpositioned to reflect new and Cutting edge technology and discetrons. Details are in the appendi



## CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

### School of Engineering & Technology

#### Department of Civil Engineering

Date: 12.06.2017

### MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Civil Engineering was held on 12.06.2017 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

- 1. Prof. C.N.V. Satyanarayan Reddy, Professor, Dept. of Civil Eng., Andhra University
- 2. Prof. Manoj Ku Rath, Prof. Dept. of Civil Engg, CUTM, BBSR Campus
- 3. Prof. R. C. Padhy, General Major
- 4. Dr. Siba Mishra, Assosiate Prof. Dept. of Civil Engg, CUTM, BBSR Campus
- 5. Prof. Prafulla Kumar Panda, HOD Dept. of Civil Engg, CUTM,Pkd Campus
- 6. Prof. Sagarika Panda, HOD Dept. of Civil Engg, CUTM, BBSR Campus

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Civil Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

#### Agenda 1: The minutes of the last meeting of the BoS held on 02/06/2016 were confirmed.

# Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Civil Engg.

The HoD, Civil Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2017-18.

- Approval for B.Tech Civil Engg. Course structure and syllabus for basket 5(domain specific subjects) of CBCS system.
- Reviewed CBCS system and explained about various basket and credit structure.
- All basket 5 Civil domains were examined and course structure was finalized.
- Smart City, Planning, and Design domain syllabus are updated as per the latest Software and technology being used by the industry.
- The entire domain person should have contact with industry for further feedback and progress.
- All the basket 5 Civil domains to be changed.
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. (Annexure A)
- The Board approved the revision of the syllabus of the Construction Domain in keeping with the latest requirements of the industry.





# Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure B)

The HoD, Department of Civil Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET Dean, SOET

Odisha

Centurion University of Technology & Managemen Dept. of Civil Engineering Continion University of Technology & Management Ehubaneswar, Khurda, Odisha-752050 Centurion University of

Technology & Management, BBSR



#### Annexure-A

### List of new courses added

Course Title	Type(Skill/Employability/Entrepreneurship)	Credit
Concrete Technology	Skill And Employability	3
Geotechnical	Skill And Employability	3
Engineering - I		
Foundation	Skill And Employability	3
Engineering		
Highway Engineering	Skill And Employability	3
Hydrology &	<del> </del>	3
Irrigation		
Quality Control and	Skill And Employability	3
Risk		
Management in		
Construction		
GIS and Digital	Skill And Employability	3
Cartography		
Strength of Material	Skill And Employability	3
Hydraulics &		3
Hydraulic		3
Machine		
Water Supply &	Skill And Employability	2
	2projudnity	3
	Skill And Employability	12
-	2projuonity	3
Structure		
	Concrete Technology Geotechnical Engineering - I Foundation Engineering Highway Engineering Hydrology & Irrigation Quality Control and Risk Management in Construction GIS and Digital Cartography Strength of Material Hydraulics & Hydraulic Machine Water Supply & Sanitary Engineering Computer Aided Design of Steel	Concrete Technology Geotechnical Engineering - I Foundation Engineering Highway Engineering Hydrology & Skill And Employability Skill And Employability Skill And Employability Hydrology & Skill And Employability Skill And Employability Skill And Employability  Skill And Employability  Skill And Employability  Skill And Employability  Skill And Employability  Skill And Employability  Strength of Material Hydraulics & Skill And Employability  Skill And Employability



#### Annexure-B

# List of Skill courses (Basket) approved

Sl. No	Course Title	Credit	(T+P+P)
1	Apparel Production & Marketing	4	0+3+1
2	Line Stitching Supervising	4	0+3+1
3	Apparel Production	4	0+3+1
4	Light Motor Vehicle Driving	4	0+3+1
5	Fork Lift Operation	4	0+3+1
6	Heavy Vehicle Technology	4	0+3+1
7	Two Wheeler Service Technology	4	0+3+1
8	Four Wheeler Service Technology	4	0+3+1
9	E-Vehicle Assembly and Service	4	0+3+1
	Technology		
10	Robotics	4	0+3+1
11	Poultry Farming	4	0+3+1
12	CNC Programming (CAM)	4	0+3+1
13	Design Supervising	4	0+3+1
	Wooden and Modular Furniture		

## List of Domain courses approved

Sl. No.	Name of the Domain	Credit	Category
1	Automotive Design	40	В
2	Cloud Technology	18	В
3	Construction Planning Monitoring and Project Management	16	A/B
4	Data Analytics	20	A/B/D
5	Embedded System Design	18	В
6	Industrial Automation	24	В
7	Information Security	41	В
8	Internet Security	38	В
9	Manufacturing (Conventional, CNC And Additive)	26	A/B
10	Planning, Design & Drawing	47	В
11	Software Technology	20	A/B
12	Surveying	36	A
13	VLSI Design & Verification	42	A
14	Web Technology	38	A/B
15	Welding And Inspection	24	A/B A/B



# List of value added courses approved

Sl.	Course Title	Hrs. of input
No		20
1	LSD-2	30
2	Development of Concentration and	30
	Memory- Application of 'Raja Yoga' in	
	daily life	
3	Self defence for Girls	30
4	Digital Marketing	30
5	Bio-fertilizer	30
6	Gender Issues	30
7	Solid Waste Management	30
8	Smart Agriculture	30
9	Adobe Tools	30

Considered the synabus under Domains, 2,88.

and the following recommendations were made:

Rec 1. The course on Geotech Sinsert & G. T. T. to

be recommended as Geotech Envestigation and the

Topics related to Ground Emprovement to be covered

in a new subject "Geo Synthetics and Ground

Improvement Technics" under a separate Domain

(General Domain).

Improvement Technics" under a separate Domain
(General Domain).

Recommendation-2: To add the following subjects in
the Proposed "General Domain".

(a) Transportation Engineering (Railway Ainport

(b) Green Buildings.

(c) 3D-Building Technology.

(d) Geo Syntatics & Ground Improvement Jechnics.

(e) Concrete Technology.

Recommendation-3: Syllabus related to the above subjects.

Recommendation-3: Sylabus related to the above subjects
Under the "General Domain" shall be decided
framed by the external experts and shall be
communicated to prof: M.K. Rath and
frof: M.L. Narasimham.

Recommendation-4; The Squabi of the Domain-1,

Domain-2 & Domain-3 are approved.

Sylla Syllabi for M. Tech courses i parts approved.

Con the day.

(prof. C.N.V. sulyanoverana lendy March.)

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## CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

### School of Engineering & Technology

Department of Electronics and Communication Engineering

Date: 12.06.2017

## MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: Room 205, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Electronics and Communication Engineering was held on 12.06.2017 at 11 a.m. in the Room no. 205, CUTM Bhubaneswar. The following are the members:

- 1. Mr. Managobinda Mishra, Director, Nemhans
- 2. Dr. D. P. Acharya, NIT Rourkela
- 3. Dr. S. K. Mandal, HoD, SoET
- 4. Dr. Satyasis Mishra, Dept. ECE
- 5. Dr. Satyanarayan Padhi, Asst. Prof., ECE
- 6. Dr. Prasant Kumar Mohanty, Convenor of BoS & Dean, SoET

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Electronics and Communication Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 02.6.2016 were confirmed.

# Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Electronics and Communication Engg.

- The HoD, Electronics and Communucation Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2017-18.
- The syllabus of 3<sup>rd</sup> to 8<sup>th</sup> semester of B. Tech, Electronics and Communication Engg. was considered and approved by the Board.
- Courses that can be executed in Practice mode were placed for approval to be reconfigured to Theory + Practice and Project + Practice.
- The Board approved the changes suggested in the existing syllabus and some new courses added as per the latest Software and technology being used by the industry .(Annex-1)





### Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annex 2 and Annex 3)

The HoD, Department of Electronics and Communucation Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET Dean, SOET

Dean, Academics

HoD, Electronics & Communication

Engg.

Dean - Academic Centurion University of Technology & Management University of Technology & Management

Odisha

Bhubaneswar, Khurda. Odisha-752050



#### Annexure-1

List of new courses added

SI.	Course Title	Type(Skill/Employa	Credit
No		bility/Entrepreneurs	
		hip	
	Basket 3		
1	Sensors & IoT	Skill	3
	Basket 4		
2	Embedded Software and Development	Employability	4
3	Microwave and Radar Communication	Employability	4
4	Antenna and Wave Propagation	Employability	3
	Basket 5		
5	Linux System Programming	Employability	5
6	Embedded Linux using Beagle Bone Black	Employability	5
7	Linux Kernel & Device Driver	Employability	3
8	Computer Vision	Employability	2
9	Embedded System Design using LABVIEW	Employability	5
10	Satellite and TV Communication	Employability	2
11	4G LTE and 5G Communication	Employability	2
12	Digital Image Processing	Employability	5
13	Antenna design and manufacturing	Employability	3
14	Information Theory & Coding	Skill	4
15	Mobile Communication	Employability	4
16	MATLAB for Electronics	Skill	3
17	PCB Design and Analysis	Skill	3

## Syllabus revised

SI. No	Course Title	Туре	Credi t	Details of modification
1	Electromagnetic Field Theory and Transmission line	Employabilit y	4	Module VII is updated



Group A: Agriculture/ Agri Engineering/Phyto pharma/ Dairy Tech/ Fisheries/ Biological

**Sciences** 

Group B: All other Engineering/Physical and Mathematical Science/Vocational or Skills

Group C: Pharmacy and Allied Health

Group D: Management & Media and Communication

Sl. No	Name of the Domain	Credit	Category	Year of introduction
1	Automotive Design	40	В	2017
2	Cloud Technology	18	В	2017
3	Construction Planning Monitoring and Project Management	16	A/B	2017
4	Data Analytics	20	A/B/D	2017
5	Embedded System Design	18	В	2017
6	Industrial Automation	24	В	2017
7	Information Security	41	В	2017
8	Internet Security	38	В	2017
9	Manufacturing (Conventional, CNC And Additive)	26	A/B	2017
10	Planning, Design & Drawing	47	В	2017
11	Software Technology	20	A/B	2017
12	Surveying	36	Α	2017
13	VLSI Design & Verification		A	2017
14	Web Technology		A/B	2017
15	Welding And Inspection	24	A/B	2017



# Skill Courses approved by university

S No	Course	Course Code	Credit
1	Apparel Production &		4
	Marketing	CUTM3029	
2	Line Stitching		4
	Supervising	CUTM3030	
3	Apparel Production	CUTM3031	4
4	Light Motor Vehicle		4
	Driving	CUTM3032	
5	Fork Lift Operation	CUTM3033	4
6	Heavy Vehicle		4
	Technology	CUTM3034	
7	Two Wheeler Service		4
	Technology	CUTM3035	
8	Four Wheeler Service		4
	Technology	CUTM3036	
9	E-Vehicle Assembly		4
	and Service		
	Technology	CUTM3037	
10	Robotics	CUTM3038	4
11	Poultry Farming	CUTM3039	4
12	CNC Programming		4
	(CAM)	CUTM3040	
13	Design Supervising		4
. 16	Wooden and Modular		
	Furniture	CUTM3041	



### Annexure 4

# Value Added courses offered by the University

S No	Couse	Course code	Credit Hours
1	LSD-2	CUVA0011	30 Hours
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	CUVA0025	30 Hours
3	Self defence for Girls	CUVA0026	30 Hours
4	Digital Marketing	CUVA0027	30 Hours
5	Bio-fertilizer	CUVA0028	30 Hours
6	Gender Issues	CUVA0029	30 Hours
7	Solid Waste Management	CUVA0030	30 Hours
8	Smart Agriculture	CUVA0031	30 Hours
9	Adobe Tools	CUVA0032	30 Hours

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1		Shi.	NAME	CUTALACE Blinbaresun	SIGNAT
		1.	Dr. S. K. Mandal	Blinbarens	5/16
		2.	Mr. Managobinda Mishra	NEMHANL, Bhubaneswood	hange
		3.	Dr. Sadyasis Misha	CUTM, Bhubenesser, ECE	S. Masha.
No.		A	Prof Satya Narrayan Pod Dr. D. P. Acharya	My CUTM, Paralarhamend NIT, Rouskela	> refer mail
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# CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT

#### School of Engineering & Technology

### Department of Mechanical Engineering

Date: 12.06.2017

## MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Mechanical Engineering was held on 12.06.2017 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the members:

- 1. Prof. S.K. Mohapatra, IIT, Bhubaneswar
- 2. Shri Ali Kishore Patnaik, Managing Director, Odisha Diesel(Ashok Layland)
- 3. Prof. P.S. Rao , Dean Research, CUTM Paralakhemundi
- 4. Prof. PSV Ramana Rao, Dean, CUTM, AP
- 5. Prof. Ipsita Mishra, HOD, ME, BBSR
- 6. Dr. R.C Mohanty, Professor, SOET, Mechanical
- 7. Mr. Sudeep Kumar Singh, CUTM, Jatani Campus
- 8. Prof. B.P. Mishra, Dean, SOET, Paralakhemundi
- 9. Prof. D.Raghuveer, HOD, ME, Paralakhemundi
- 10. Prof.Babuli Jena, Assistant Professor
- 11. Mr.Mukundjee Pandey Assistant Professor
- 12. Mr. Manas Ranjan Padhy Assistant Professor
- 13. Mr. Girija Nanda Arka Assistant Professor
- 14. Mr. Chandan Kumar Jena, Student
- 15. Mr. Ravi Kumar, Student
- 16. Mr. Hrusikesh Mishra, Alumni
- 17. Mr. Mohit Singh, Alumni

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Mechanical Engineering presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 2/06/2016 were confirmed.

# Agenda 2: Discussion and approval on any revision required in the Curriculum of B.Tech, Mechanical Engg.

The HoD, Mechanical Engg. gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for course revision to be implemented from the Academic Year 2017-18.

- Approval for B.Tech Mechanical Engg. Course structure and syllabus for basket 5(domain specific subjects) of CBCS system.
- Reviewed CBCS system and explained about various basket and credit structure.





- All basket 5 mechanical domains were examined and course structure was finalized.
- In Automobile domain maintenance of Diesel engine forklift is to be supplemented with hydraulic equipment such as escalators and loader.
- The entire domain person should have contact with industry for further feedback and progress.
- Basic metallurgy to be included in basket 3 as per expert.
- All the basket 5 mechanical domains to be changed.
- Automobile domain to be supplemented by hydraulic equipment courses.
- 3D experience domain is introduced which was highly appreciated by experts.
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component. List of new courses added in (Annexure A.)
- The Board approved the revision of the syllaubus of the Construction Domain in keeping with the latest requirements of the industry.
- The Board approved the changes suggested in the Basic Metallurgy, Geometric Modelling, Metrology, Workshop Practice, Digital Manufacturing, Fluid Mechanics and Heat Transfer, Operation and Maintenance of Diesel Forklift and Hydraulic Equipment as per the latest Software and technology being used by the industry. List of existing courses where syllabus was revised in (*Annexure B*)

Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure C)

The HoD, Department of Mechanical Engg. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoET

Dean, SOET

Centurion University of Technology & M.

Odisha

Dean, Academics Dean - Academic

Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050 HoD, Mechanical Engineering



#### Annexure-A

#### List of new courses added

SI. No		Type(Skill/Employability/Entrepreneurship)	Credit
1	Manufacturing Skill And Employability		3
	Technology 1		
2	Manufacturing	Skill And Employability	3
	Technology 2		
3	Internal Combustion	Skill And Employability	3
	Engines		
4	Renewable Energy	Skill And Employability	3
	Systems		
5	Fluid Power	Skill And Employability	3
6	Mechanics of Machines	Skill And Employability	3
7	Fluid Mechanics and	Skill And Employability	3
	Heat Transfer	okin 7 ind Employability	)
8	Strength of Material	Skill And Employability	3
9	Finite Element Analysis	Skill And Employability	
10	Introduction to		3
	Refrigeration & HVAC	Skill And Employability	3
11	Control System for	Chill And Employed 11.	2
1 1	Refrigeration & Air	Skill And Employability	,3
	Conditioning		
12	Design and Maintenance	Chill And F. 1 199	
12	of Automobile Air	Skill And Employability	3
13	Conditioning		
13	Maintenance and Testing	Skill And Employability	3
1.4	of Refrigerator		
14	Maintenance and Testing	Skill And Employability	3
	of Coolers, Window and		
	Split AC		
15	Design and Maintenance	Skill And Employability	3
	of Central Air		J
	Conditioning Plant		
16	Design and Maintenance	Skill And Employability	3
	of Cold Storage		J
17	Joining Processes &	Skill And Employability	2
	Technology	projuonity	3
18	Arc Welding, Gas	Skill And Employability	
	Welding & Brazing	and amployautilly	3
19	Metal Transfer & Weld	Skill And Employed 11	
	Metallurgy	Skill And Employability	3
20	Design of Welded Joints	Chill A I D I	
21	Welding of Stainless	Skill And Employability	3
	Steel Aluminium	Skill And Employability	3
	Steel, Aluminium,		-
	Copper, Cast Iron and		
22	Hard Surfacing		
22	Testing of Welded Joints	Skill And Employability	3
	(DT, NDT &	, ,,	J
22	Microstructure)		
23	Introduction to	Skill And Employability	2
Tells.	Automobile Engineering	y womity	3



24       Subsystems of Automobile       Skill And Employability       3         25       Design and Maintenance of Electric Vehicles       Skill And Employability       3         26       Entrepreneurship Opportunities in Automobile Trade       Skill And Employability       3         27       Maintenance of 4 Wheeler       Skill And Employability       3         28       Maintenance of 2 Wheeler       Skill And Employability       3         29       Operation and Maintenance of Diesel Forklift and Hydraulic Equipments       Skill And Employability       3         30       Project       Skill And Employability       3         31       Internship       Skill And Employability       3         32       Courses of 3D Experience Domain       Skill and Employability       35			TVERSITY	12
25 Design and Maintenance of Electric Vehicles  26 Entrepreneurship Opportunities in Automobile Trade  27 Maintenance of 4 Wheeler  28 Maintenance of 2 Skill And Employability Wheeler  29 Operation and Maintenance of Diesel Forklift and Hydraulic Equipments  30 Project Skill And Employability 31 Internship Skill And Employability 32 Courses of 3D Skill and Employability 33 Skill And Employability 34 Skill And Employability 35 Skill And Employability 36 Skill And Employability 37 Skill And Employability 38 Skill And Employability 39 Skill And Employability 30 Skill And Employability 31 Skill And Employability 32 Skill And Employability 33 Skill And Employability 35 Skill And Employability	24	1	Skill And Employability	3
of Electric Vehicles  26 Entrepreneurship Opportunities in Automobile Trade  27 Maintenance of 4 Wheeler  28 Maintenance of 2 Skill And Employability Wheeler  29 Operation and Maintenance of Diesel Forklift and Hydraulic Equipments  30 Project Skill And Employability 31 Internship Skill And Employability 32 Courses of 3D Skill and Employability 33 Skill And Employability 34 Skill And Employability 35 Skill And Employability 36 Skill And Employability 37 Skill And Employability 38 Skill And Employability 39 Skill And Employability 30 Skill And Employability 31 Skill And Employability 32 Skill And Employability 33 Skill And Employability				2
26 Entrepreneurship Opportunities in Automobile Trade  27 Maintenance of 4 Wheeler  28 Maintenance of 2 Wheeler  29 Operation and Maintenance of Diesel Forklift and Hydraulic Equipments  30 Project Skill And Employability  31 Internship Skill And Employability  32 Skill And Employability  3 Skill And Employability	25	Design and Maintenance	Skill And Employability	3
Opportunities in Automobile Trade  27 Maintenance of 4 Wheeler  28 Maintenance of 2 Skill And Employability Wheeler  29 Operation and Maintenance of Diesel Forklift and Hydraulic Equipments  30 Project Skill And Employability 31 Internship Skill And Employability 32 Courses of 3D Skill and Employability 33 Skill And Employability 34 Skill And Employability 35 Skill And Employability 36 Skill And Employability 37 Skill And Employability 38 Skill And Employability 39 Skill And Employability 30 Skill And Employability 31 Skill And Employability 32 Skill And Employability 33 Skill And Employability 35 Skill And Employability		of Electric Vehicles		
Automobile Trade  27 Maintenance of 4 Wheeler  28 Maintenance of 2 Skill And Employability  30 Wheeler  29 Operation and Maintenance of Diesel Forklift and Hydraulic Equipments  30 Project Skill And Employability  31 Internship Skill And Employability  32 Courses of 3D Skill and Employability  33 Skill and Employability  34 Skill and Employability  35 Skill and Employability  36 Skill and Employability  37 Skill and Employability  38 Skill and Employability  39 Skill and Employability  30 Skill and Employability	26	Entrepreneurship	Skill And Employability	3
Automobile Trade  27 Maintenance of 4 Wheeler  28 Maintenance of 2 Skill And Employability  30 Wheeler  29 Operation and Maintenance of Diesel Forklift and Hydraulic Equipments  30 Project Skill And Employability  31 Internship Skill And Employability  32 Courses of 3D Skill and Employability  33 Skill and Employability  34 Skill and Employability  35 Skill and Employability  36 Skill and Employability  37 Skill and Employability  38 Skill and Employability  39 Skill and Employability  30 Skill and Employability		Opportunities in		
Wheeler  28 Maintenance of 2 Skill And Employability  29 Operation and Maintenance of Diesel Forklift and Hydraulic Equipments  30 Project Skill And Employability  31 Internship Skill And Employability  32 Courses of 3D Skill and Employability  33 Skill and Employability  34 Skill and Employability  35 Skill and Employability  36 Skill and Employability  37 Skill and Employability  38 Skill and Employability  39 Skill and Employability  30 Skill and Employability				
Wheeler  28 Maintenance of 2 Skill And Employability  29 Operation and Maintenance of Diesel Forklift and Hydraulic Equipments  30 Project Skill And Employability  31 Internship Skill And Employability  32 Courses of 3D Skill and Employability  33 Skill and Employability  34 Skill and Employability  35 Skill and Employability  36 Skill and Employability  37 Skill and Employability  38 Skill and Employability  39 Skill and Employability  30 Skill and Employability	27		Skill And Employability	3
Wheeler  29 Operation and Maintenance of Diesel Forklift and Hydraulic Equipments  30 Project Skill And Employability 3  31 Internship Skill And Employability 3  32 Courses of 3D Skill and Employability 35		Wheeler		
Wheeler  29 Operation and Maintenance of Diesel Forklift and Hydraulic Equipments  30 Project Skill And Employability 3  31 Internship Skill And Employability 3  32 Courses of 3D Skill and Employability 35	28	Maintenance of 2	Skill And Employability	3
Maintenance of Diesel Forklift and Hydraulic Equipments  30 Project Skill And Employability 3 31 Internship Skill And Employability 3 32 Courses of 3D Skill and Employability 35		Wheeler		
Maintenance of Diesel Forklift and Hydraulic Equipments  30 Project Skill And Employability 3 31 Internship Skill And Employability 3 32 Courses of 3D Skill and Employability 35	29	Operation and	Skill And Employability	3
Forklift and Hydraulic Equipments  30 Project Skill And Employability 3 31 Internship Skill And Employability 3 32 Courses of 3D Skill and Employability 35		Maintenance of Diesel		
Equipments  30 Project Skill And Employability 3  31 Internship Skill And Employability 3  32 Courses of 3D Skill and Employability 35				
30ProjectSkill And Employability331InternshipSkill And Employability332Courses of 3DSkill and Employability35		1		
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32 Courses of 3D Skill and Employability 35				3
			Skill And Employability	3
	32	Courses of 3D	Skill and Employability	35
		Experience Domain	-	



### Annexure-B

## List of existing courses where syllabus was changed

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
1	Basic Metallurgy	1	Course type was changed with little modification in content.
2	Geometric Modeling	1	Course type was changed with little modification in content.
3	Metrology	1	Course type was changed with little modification in content.
4	Workshop Practice	1	Course name was been changed with little modification in content.
5	Digital Manufacturing	1	Course type was changed with little modification in content.
6	Fluid Mechanics and Heat Transfer	1	Course type was changed with little modification in content.
7	Operation and Maintenance of Diesel Forklift and Hydraulic Equipment	2	Some practice have been included



#### Annexure-C

# List of Skill courses (Basket) approved

Sl. No	Course Title	Credit	(T+P+P)
1	Apparel Production & Marketing	4	0+3+1
2	Line Stitching Supervising	4	0+3+1
3	Apparel Production	4	0+3+1
4	Light Motor Vehicle Driving	4	0+3+1
5	Fork Lift Operation	4	0+3+1
6	Heavy Vehicle Technology	4	0+3+1
7	Two Wheeler Service Technology	4	0+3+1
8	Four Wheeler Service Technology	4	0+3+1
9	E-Vehicle Assembly and Service	4	0+3+1
	Technology		
10	Robotics	4	0+3+1
11	Poultry Farming	4	0+3+1
12	CNC Programming (CAM)	4	0+3+1
13	Design Supervising	4	0+3+1
	Wooden and Modular Furniture		

# List of Domain courses approved

SI. No	Domain Course Title	Credit	(T+P+P)
1	Welding and Inspection	24	8+8+6
2	Manufacturing (Conventional, CNC And	26	2+16+8
None.	additive)		

# List of value added courses approved

SI. No	Course Title	Hrs. of input
1	LSD-2	30
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	30
3	Self defence for Girls	30
4	Digital Marketing	30
5	Bio-fertilizer	30
6	Gender Issues	30
7	Solid Waste Management	30
8	Smart Agriculture	30
9	Adobe Tools	30

\* proceedings of 4th Bosh meeting for the gession Assoval for Bitech mechanical engineering Agenda Carry shirter of 571/0511 for Bostet-I Comain specific subjects) for CBCS for acodemic and migeth by Rollarch Dak = 12-6-2017 1 1000 venue: CAD lab, CIF Campus; gAFINS. no moed present in the last to the configuration of the contraction of p prof. S.K. maha palva, 259. Bushaneswar 1) Shri. Ali Eshar potnaix, manazing director, orisia at efet, (Athor leyland) 3) Prod. PS. ROO. DEAN RdD, Parlakhe much is) polis p. mishrow, DEAN, 5067, pork blemund 5) Prot- R.C. monanty, sept of mech engineery, (1) 6) MM. IPSIL Mishre, HOD, Dept of nech, CIT 2) Mr. D. Raghurer, Hop, Dept of mech, Portorhem a) Mr. Babuli Kumar Jena, pept of mech, 127 9) Mr. Manas Ranjan Padhir, Dept of Mich, 1727 10) Mr. G.N. ARra, Dept of meets CIT & 11) M. Subeep Singh, Dest of Mech, CIT & Markingie Panday, Doft of Mach, Cit, John Ligarion

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#### **School of Applied Sciences**

#### Department of Botany

Date: 12.06.2017

#### MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Botany was held on 12.06.2017 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following members are the board members:

- 1. Prof. Padan Kumar Jena, Ravenshaw University (External expert)
- 2. Registrar, CUTM, Bhubaneswar (Chairperson)
- 3. Prof. Susanta Kumar Biswal, Dean, SoAS, CUTM, Bhubaneswar (Member)
- 4. Miss Kalpita Bhatta, Lecturer, Department of Botany, SoAS, CUTM, Bhubaneswar (Member)

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Head of the Department of Botany presented the achievements and improvements of the department in the areas of academics, research and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 2<sup>nd</sup> June, 2016 were confirmed.

Agenda 2: Discussion and introduction of II, IV, V and VI semester courses in the Curriculum of B.Sc. (Botany) to be approved.

- Ms. Kalpita Bhatta, lecturer, Department of Botany gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved a few suggestions for the courses and programme to be implemented from the Academic Year 2017-18.
- The syllabus of 3rd to 6th semester of B. Sc. Botany (Hons) (CBCS) pattern was prepared as per UGC guidelines with some minor changes, considered and approved by the Board. (Annexure I)



#### Agenda 3: Introduction of new programme (M.Sc. Botany)

- The M.Sc. Botany programme was introduced as per the suggestions made by the various stakeholders and the syllabus for I, II, III and IV semester was prepared and approved after necessary modification as per UGC Guideline. (Annexure-II)
- The list of practical to be included for different semesters was prepared keeping in view the availability of infrastructure, specimen and local needs.
- Invited external experts suggested for incorporation of two more subject experts for BoS meeting.

#### Agenda 4: Inclusion of courses on life skills and value addition

• Board members agreed for inclusion of four skill courses in B.Sc. Botany (Hons.) and five skill courses in M. Sc. Botany and approved by the Board members. It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well-being. The same was agreed upon and approved by the Board members. (Annexure-III)

Ms. Kalpita Bhatta, lecturer, Department of Botany extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoAS

12.6.2017

DEAN
School of Applied Sciences
CENTURION UNIVERSITY OF TECHNOLOGY & MANAGEMENT
Bhubaneswar, Odisha

Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



#### Annexure I

## B. Sc. Botany Syllabus (3<sup>rd</sup> to 6<sup>th</sup> semester)

#### Semester-III

Sl. No.	Code	Subject Name	Type (L-T-P)	Credits
1	BSBO2301	Anatomy of Angiosperms	3-1-3	6
2	BSBO2302	Economic Botany	3-1-3	6
3	BSBO2303	Basies of Genetics	3-1-3	6
4	GE-3 <sup>el</sup>	Inter Disciplinary Subject		6
5	SEC-1"	Skill Enhancement Course-1	0-0-3	2
		Total		26

#### Semester-IV

Sl. No.	Code	Subject Name	Type (L-T-P)	Credits
1	BSBO2401	Molecular Biology	3-1-3	6
7	BSBO2402	Plant Ecology and Phytogeography	3-1-3	6
3	BSBO2403	Plant Systematics	3-1-3	6
4	GE-4@	Inter Disciplinary Subject		6
- 5	SEC -2#	Skill Enhancement Course-2	0-0-3	2
		Total		26

#### Semester- V

Sl. No	Code	Subject Name	Type (L-T-P)	Credits
1	BSBO3501	Reproductive Biology of Angiosperm	3-1-3	6
2		Plant Physiology	3-1-3	6
3	DSE*	Discipline Specific Elective-1		6
4	DSE*	Discipline Specific Elective-2		6
		Total		24

#### Semester- VI

Sl. No.	Code	Subject Name	Type (L-T-P)	Credits
1	BSBO3601	Plant Metabolism	3-1-3	6
2	BSBO3602	Plant Biotechnology	3-1-3	6
3	DSE*	Discipline Specific Elective-3		6
4	DSE*	Discipline Specific Elective-4		6
		Total		24

#### Discipline Specific Elective Courses (DSE)

SI. No.	Code	Subject Name	Type (L-T-P)	Credits
	BSBO3503	DSE I Analytical Techniques in Plant Sciences	3-1-3	6
2	BSBO3504	DSE II Biostatistics	3-1-3	6
3	BSBO3603	DSE III Bioinformatics	3-1-3	6
4	BSBO3604	DSE IV Natural Resource Management	3-1-3	6

Centurion University of Technology & Management



## Annexure II

## M. Sc. Botany Syllabus (1<sup>st</sup> to 4<sup>th</sup> semester) Course Structure-2017

#### Semester-1

ct Vi	Code	Subject Name	Type (L-T-P)	Credits
Sl. No.		Microbiology	3-1-0	04
	MSBO1101	Plant Diversity	3-1-0	04
_2	MSBO1102		3-1-0	04
3	MSBO1103	Cell Biology	3-1-0	04
4	MSBO1104	Plant Ecology		04
5	MSBO1105	Botany Laboratory-I	0-0-6	04
		Skill I	0-0-3	04
		Total		24

#### Semester-II

Sl. No.	Code	Subject Name	Type (L-T-P)	Credits
1.	MSBO1201	Genetics and Molecular Biology	3-1-0	04
2.	MSBO1202	Plant Physiology, Metabolism, and Biochemistry	3-1-0	04
3.	MSBO1203	Biostatics and Instrumentation	3-1-0	04
4.	MSBO1204	Environmental Pollution and Management	3-1-0	04
5.	MSBO1205	Botany Laboratory-II	0-0-6	04
		Skill II	0-0-3	04
		Total		24

#### Semester-III

Sl. No.	Code	Subject Name	Type (L-T-P)	Credits
1.	MSBO2301	Systematics and Pathology	3-1-0	04
2.	MSBO2302	Natural Resource Management and Utilization	3-1-0	04
3.	MSBO2303	Embryology and Anatomy	3-1-0	04
4.	MSBO2304	Techniques of Tissue Culture	3-1-0	04
5.	MSBO2305	Botany Laboratory-III	0-0-6	04
6.	MSRM5101	Introduction to Research	2-0-0	02
7.	MSBP2301	Scientific visit	0-0-3	02
		Total		24

#### Semester-IV

Sl. No.	Code	Subject Name	Type (L-T-P)	Credits
1.	MSBO2401	Plant Biotechnology and Bioinformatics	3-1-0	04
2.	MSBO2402	Eco toxicology & Waste Management	3-1-0	04
3.	MSBO2403	Microbial Technology & Physiology	3-1-0	04
4.	MSBP2401	Project/Dissertation	0-0-6	04
5.	MSBS2401	Seminar		08
		Total	0-0-3	04
		IOIay		24

Centurion University of Technology & Management

Signature Place Name SINO Revenshow Dr. PadankJena University Cuttaen odisha Kalpita Bhatta CUTM, Bhubaum Kalpita Palith



#### **School of Applied Sciences**

#### **Department of Physics**

Date: 12.06.2017

## MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of Department of Physics was held on 12.06.2017 at 11 a.m. in CUTM Bhubaneswar. The following are the board members:

- 1. Dr. Goutam Tripathy, Prof IOP, Bhubaneswar, External expert
- 2. Dr. S.K.Biswal, Dean SoAS
- 3. Dr. Anita Patra, Registrar, CUTM
- 4. Dr. Padmaja Patnaik, HoD, Department of Physics, CUTM BBSR
- 5. Dr. J.K.Meher, Prof, CUTM Bolangir
- 6. Mr. Gyanendra kumar Misra, Lecturer, CUTM Bolangir

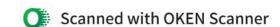
The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. The Head of the Department of Physics presented the achievements and improvements of the department in the areas of academics, research and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 02.06.2016 were confirmed.

Agenda 2: Discussion and approval on revision required in the Curriculum of B.Sc. and M.Sc Physics.

- The HoD, Physics, gave a presentation on the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on this, the Board accepted and approved the revised course for the Academie Year 2017-18.
- The syllabus of B.Sc. CBCS courses are designed for 3rd, 4th, 5th and 6th semester and approved by the Board. (Annexure-1)
- The structure of M.Sc syllabus has been modified for the 1st to 4th semester for the newly admitted batch. Two specializations- Electronics and Material Science were put for approval. (Annexure-2)
- The Board approved the updation of the courses important from higher studies point of view and replacement of contents of open basket with new courses with greater practice component.
- Courses that can be executed in Practice mode were placed for approval to be reconfigured as
   Theory + Practice, Theory + Practice+ Project or Project + Practice type.





## Agenda 3: Inclusion of courses on life skills and value addition

It was suggested that students will take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure-3)

The HoD, Department of Physics. extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean SoAS

2.6.2017

Dean, Academics

Dean - Academic

Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



## Annexure-1

## List of new courses added

1.	Course Title	Type(Skill/Employability/E ntrepreneurship/higher studies/Industry)	Credit
Sa	. Physics		
	ESTER III		1
EIVI	Skill Enhancement Course-1	Skill	2
	Mathematical Physics II	Skill	6
	Electricity and Magnetism	Employability	6
	Analog systems and Applications	Employability	6
	Inter Disciplinary Subject	Employability	6
	1ESTER IV	•	
) 1510	Skill Enhancement Course-2	Skill	2
?	Mathematical Physics III	Skill	6
3	Elements of Modern Physics	Employability & Skill	6
1	Digital systems and Applications	Employability & Skill	6
5	Inter Disciplinary Subject	Employability	6
	MESTER V		
l	Quantum Mechanics & Applications	Employability & Skill	6
2	Solid State Physics	Employability & Skill	6
<del>2</del> 3	Discipline Specific Elective-1	Employability	6
<u>3</u> 4	Discipline Specific Elective-2	Employability	6
	MESTER VI		,
	Electro-magnetic Theory	Skill	6
1	Statistical Mechanics	Skill	6
3	Discipline Specific Elective-3	Employability	6
4	Discipline Specific Elective-4	Employability	6
4 Cl.	ill Enhancement Courses	-	
	Physics Workshop Skills	Skill	2
2	Computational Physics Skills	Skill	2
3	Electrical circuits and Network Skills	Skill	2
4	Basic Instrumentation Skills	Skill	2
5	Applied Optics	Skill	2
	scipline Specific Elective		
1	Experimental Techniques	Employability & Skill	6
2	Embedded systems- Introduction to Microcontroller	Employability & Skill	6
3	Physics of Devices and Communication	Employability & Skill	6
4	Advanced Mathematical Physics-I	Skill	6
5	Advanced Mathematical Physics-II	Employability	6
6	· · · · · · · · · · · · · · · · · · ·	Employability	6
7		Employability	6
8		Employability	6
9		Employability	6
_	0 Astronomy and Astrophysics	Employability & Skill	6
	1 Dissertation	Employability & Skill	6



Annexure-2
New (Modified) syllabus for M.Sc. Physics (For 2017-2019 batch)

CI	Course Title	Type(Skill/Employa	Credit
SI. N	Course Title	bility/Entrepreneursh	
0		ip/higher	
U		studies/Industry)	
	Semester-I		
1	Mathematical Physics	Skill	4
2	Classical Mechanics	Employability	4
3	Quantum Physics I	Employability	4
4	Electrodynamics & Special Relativity	Employability	4
5	Modern Physics Lab	Skill	4
6	Skill I	Skill	4
0	JKIII I		
	Semester-II	Employability	4
1	Statistical Physics	Employability	4
2	Solid State Physics	Employability	4
3	Electronics Devices and Circuits	Skill	4
4	Computational Physics	Skill	2
5	Computational Physics Lab	Skill	2
6	Electronics Devices Lab	Skill	4
7	Skill II		1 7
	Semester-II	Employability	4
1	Atomic and Molecular Physics	Employability	4
2	Nuclear and Particle Physics	Employability	2
3	Introduction to Research	Employability	4
4	Quantum Physics II	Skill	2
5	Seminar I	Employability	4
6	Special Paper I	Skill	4
7	Special Paper Lab I Semester-IV		
		Employability	4
1	Special paper II		4
2	Special paper III	Employability Skill	4
3	Special paper Lab II		
4	Seminar II	Skill	4
5	Project/Dissertation	Employability & Skill	8
	Stream-1: Electronics S	Snecial Paner	
1	Microprocessor and Interfacing devices	Employability	4
1		Skill	4
2	Microprocessor lab		4
3	Electronics Communication System	Employability	
4	Embedded System	Employability	4
5	Electronics simulation Lab	Skill	4
•	Stream-2: Material Scien		1
1	Soft Matter Physics	Employability	4
2	Materials Lab I	Skill	4
3	Introduction to Bio- and Nano-materials	Employability	4



	4	Advanced Solid State Physics	Employability	4
ľ	5	Materials Lab II	Skill	4



### Annexure-3

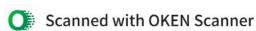
### Skill Courses approved by university

Sl. No.	Course Title	Credit
	A D Lating & Marketing	4
1	Apparel Production & Marketing	4
2	Line Stitching Supervising	4
3	Apparel Production	4
4	Light Motor Vehicle Driving	4
5	Fork Lift Operation	4
6	Heavy Vehicle Technology	4
7	Two Wheeler Service Technology	4
8	Four Wheeler Service Technology	4
9	E-Vehicle Assembly and Service Technology	
10	Robotics	4
11	Poultry Farming	4
12	CNC Programming (CAM)	4
13	Design Supervising Wooden and Modular Furniture	4

## Value Added courses offered by university

	Course Title	Credit
1	LSD-2	30 Hours
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	30 Hours
3	Self-defence for Girls	30 Hours
4	Digital Marketing	30 Hours
5	Bio-fertilizer	30 Hours
6	Gender Issues	30 Hours
7	Solid Waste Management	30 Hours
8	Smart Agriculture	30 Hours
9	Adobe Tools	30 Hours

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT



Board of studies meeting held on 12/06/2017 11 SI Members Present: -1. Dr. Goutan Tripally, Port IOP, Bhubareswar As external expert. 2. Dr. Padmaja Paliaik, Aset port, CUTM, Jatri 3. Dr. J. K. Meher, Prof, CUTM, Bolargix 4. Gyanerdia kumar Mishra, L'ectorer, CVTM, Bolarger Agerda of the meeting: -1. For BSC programme & BSC CBCS courses are designed for 3rd, 4/h, 5/h & 6/h semesters. All core papers, elective papers are designed. 2. For MSC programme - Mass Syllabus structure has been modified for the 1st, 2rd, 3rd & 4th Senester MCC Physics. Lwo specializations are to be given, Electronics and Material science. New papers are introduced keeping latest brends and different enams for students. Deliberations 1. B.S.C. by llabors finalised and approved 2. MSC by llabors finalised for 2017 admitted batch tiralised and approved. 3. MSC syllabus of 2016 batch is slightly modified by applacing for papers. 4. Some charges has been suggested by the expert, which will be made in the detailed Syllabors 4. M. Phill in Physics is introduced from this year. Syllabors is findized. Rodnata ( Tips lly project 7017



#### School of Management

Date: 20.06.2017

#### MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Management was held on 12.06.2017 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the board members:

- 1. Dr. Haribandhu Panda, Vice Chancellor, CUTM
- 2. Dr. Smita Mishra Panda, Director Research, CUTM
- 3. Dr. Anita Patra, Registrar, CUTM
- 4. Dr. Prasanta Kumar Mohanty, Dean Academics, CUTM
- 5. Dr. Ashok Kumar Mohanty, Retd. Professor, Berhamur University
- 6. Mr. Mathew Anthony, Director, iNurture
- 7. Prof. Rashmi Ranjan Parida, PGP Coordinator, CUTM
- 8. Dr. Pramod Kumar Patjoshi, Faculty, CUTM
- Dr. Ansuman Jena, Faculty, CUTM
- 10. Prof. Umakanta Nayak, Faculty, CUTM
- 11. Prof. KVD Prakash, Dean, SoM, CUTM

The Chairperson, CUTM welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean, SoM presented the achievements and improvements of the School in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

Agenda 1: The minutes of the last meeting of the BoS held on 02.06.2016 were confirmed.

#### Agenda 2: Discussion and approval on revision required in the Curriculum of MBA program

- The Dean, SoM gave a presentation based on the feedback received on curriculum outlining
  the suggestions made by the various stakeholders. Based on that, the Board accepted and
  approved the following suggestions for course revision to be implemented from the Academic
  Year 2017-18 (Annexure-I).
  - o A new Area of Electives was introduced in Hospital Management with 40 credits.
  - A new Area of Electives was introduced in Digital Marketing & E-Commerce with 42 credits.
  - Courses in which revision was undertaken were Quantitative Techniques in Semesterl and Operation Research in Semester-II. (Decision Perspective of Management of 2 credit was converted into two subjects i.e. QT and OR comprising of six credit) of two subjects.



# Agenda 3: Discussion and approval on revision required in the Curriculum of MBA-DM & ABM program

- The Dean, SoM presented the feedback received on curriculum outlining the suggestions made by the various stakeholders. Based on that, the Board accepted and approved the following suggestions for course revision to be implemented from the Academic Year 2017-18 (Annexure-II).
  - o A new area of elective was approved to be offered in Agri-business management.
  - o The name of the programme was changed to MBA- DM &ABM.

#### Agenda 4: Discussion and approval on revision required in the Curriculum of BBA program

 BBA syllabus was presented based on the suggestions made by the various stakeholders. The Board accepted and approved the existing syllabus without changes for the academic year Year 2017-18.

#### Agenda 5: Discussion and approval on revision required in the Curriculum of B.Com program

• The Dean, SoM presented the newly developed syllabus for B.Com and after thorough discussion of courses, the program and syllabus was approved (*Annexure-III*).

#### Agenda 6: Inclusion of courses on life skills and value addition

It was suggested that students take up the various courses offered by the University in the areas of life skills and value addition for their overall improvement and well being. The same was agreed upon and approved by the Board members. (Annexure-IV)

The Dean, SoM extended sincere thanks to all members of the Board.

The meeting ended with a Vote of Thanks to the Chair.

Dean, SoM

\_ Dean

School of Management Centurion University, Odisha Dean, Academics

Dean - Academic Centurion University of Technology & Management

Bhubaneswar, Khurda. Odisha-752050



#### List of new courses added in MBA

SI. No		Course Title	Type (Skill/ Employability/ Entrepreneurship	Credi
Elect	ives of Semester I			
1		Hospital Administration	Employability	4
2		Management Information	Employability & Skill	
		Systems for Hospital	development	2
3		Management of Out-Patient		
		Department	development	4
4		Risk and Disaster	Employability	4
		Management	Frank - veletiter	4
5		Management of Quality	Employability	
6		Legal and Ethical Issues for	Employability	4
-		Hospitals	Employability	2
7		Health Insurance		D
8		Project Management in Health Care	Employability	4
9		Marketing of Hospital	Employability,	
		Services	Entrepreneurship	4
10		Clinical, Diagnostic &	Employability	
		Therapeutic Services	Employability	4
11		Therapeans services	Employability & Skill	
		Patient Care and Behavior	development	4
12		Web Traffic Generation	Employability,	2
12		7, 60 Traine Generalien	Entrepreneurship &	
			Skill development	
13		Link Building & e-WoM	Employability,	2
13		blink bunding & c vi oni	Entrepreneurship &	
			Skill development	
14		Social Media Marketing	Employability,	
14		Social media mame	Entrepreneurship &	4
			Skill development	
4.5		Branded Content and the	Employability	
15		Future of Media	,,	4
		Ideas, Brands and	Employability	
16		Business	2pio jability	2
	7		Employability,	
17		Brand Planning and	Entrepreneurship	4
	The Cart of the Ca	Consumer Insights		
.8		Digital Strategies and	Employability &	4
		Planning	Entrepreneurship	
9		Mobile & E-Mail	Skill development	4
		Marketing		,
0	47	Search Engine	Skill development	2
		Optimization		2
,	- 1000000- - 1000000-	Search Engine Marketing	Skill development	4
1		Technology of e-	Skill development	_
2		rechnology of e-	Jan development	2



23	1.	Online Reputation Management	Skill development	4
24		Affiliate Marketing	Skill development	2
25		Web Content Writing	Skill development	2

List of existing courses where syllabus was revised for MBA

Basket/ Semester	Name of Course	No. of Modules/Topics revised	Revised Modules/Topics (details)
I	Quantitative Techniques	1	Nature, Scope and limitations of statistics; uses of statistics to business and industrial activities, Statistical Data—primary and secondary data, Collection of data, Classification and tabulation of data, Diagrammatic and graphic representation of data. Questionnaire—its characteristics and drafting
II	Operation Research	1	Game Theory introduced



#### Annexure-II

## List of new courses added in MBA DM & ABM

SI. No	Course Title	Type (Skill/ Employability/ Entrepreneurship	Credit
	tives of Semester I and II	E L L- ilian	2
1	Individual and Group Behaviour	Employability	2
2	Principles of Management	Skill development	2
3	ICT in Agriculture	Skill development	2
4	Logistics and Supply Chain Management	Employability	2
5	Agricultural Marketing	Employability	4
6	Economic Environment for Agriculture	Employability	2
7	Operation Research	Employability	2
8	Management Information Systems	Employability	
Seme	ester-III of ABM		
9	Study of an Organization	Employability,	,
		Entrepreneurship	6
10	Field Intervention/(Ag. Development	Employability,	,
	Action)	Entrepreneurship	6
11	Sales and Distribution Management	Employability	2
12	Agricultural Extension Management	Employability	2
13	Corporate Social Responsibility	Employability	2
14	Disaster Management	Employability	2
15	Food Retail Management	Employability	2
	Post-harvest and Processing Management	Employability	2
16	Insurance and Risk Management	Employability	2
17			
	ster-IV of ABM	Employability	6
18	Management Action Component-1	Employability	6
19	Management Action Component - 2	Employability,	2
20	Live-stock Management	Entrepreneurship	2
21	Agri-export and WTO	Employability, Entrepreneurship	2
		THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER,	2
22	Total Quality Management	Employability	$\frac{2}{2}$
23	Contract Farming	Employability	2
	Micro-finance and FI	Employability	
24		Employability,	2
25	Commodity Market and Trading	Entrepreneurship	
26	Social Entrepreneurship	Skill development	4
.0			





List of new courses in B.Com (New Syllabus)

SI. No		Type (Skill/ Employability/ Entrepreneurship	Credit
Sen	nester I	Entrepreneursnip	
1	Proficiency in English	Employability	2
2	Management Principles and Applications	Employability	4
3	Computer Application in Business	Skill Development	4
4	Financial Accounting I	Employability &	4
		Entrepreneurship	
5	Business Mathematics	Employability &	4
		Entrepreneurship	
6	Business Economics	Employability &	6
Som	ester II	Entrepreneurship	
7	Reading to Writing	Consular valatilitar	
8	Business Law	Employability	2
8	busiless law	Employability & Entrepreneurship	6
9	Business Statistics	Employability &	6
J	Dusiness statistics	Entrepreneurship	O
10	Introduction to Banking	Employability	4
11	Business Environment	Employability &	4
		Entrepreneurship	
12	Financial Accounting II	Employability &	4
		Entrepreneurship	
Seme	ster III		
13	Financial Management	Employability &	6
		Entrepreneurship	
14	Direct Tax	Employability	4
15	Indirect Taxes / GST	Employability &	4
		Entrepreneurship	
16	Tally.ERP 9	Skill Development	6
17	Cost & Management Accounting	Employability &	4
		Entrepreneurship	
.8	Corporate Law	Employability &	4
		Entrepreneurship	
emes	ter IV	1	
9	E-Commerce	Employability	4
0	Advanced Excel	Skill Development	4
1	Quantitative Techniques for Business	Employability	4
2	Entrepreneurship Development	Entrepreneurship	6
3	Auditing	Employability	4
1	Business Ethics & Governance	Employability,	4
		Entrepreneurship	



25	Corporate Accounting	Employability &	4
		Entrepreneurship	
26	Financial Market Operation	Employability	4
27	On Job Internship-I	Employability,	12
		Entrepreneurship &	
		Skill development	
Seme	ster VI	•	
28	Global Finance	Employability	4
29	Banking Law & Practice	Employability	4
30	On Job Internship-II	Employability,	12
		Entrepreneurship &	
		Skill development	
		Total Credit	144





#### **Skill Courses approved**

Sl. No.	Course Title	Credit
1	Apparel Production & Marketing	4
2	Line Stitching Supervising	4
3	Apparel Production	4
4	Light Motor Vehicle Driving	4
5	Fork Lift Operation	4
6	Heavy Vehicle Technology	4
7	Two Wheeler Service Technology	4
8	Four Wheeler Service Technology	4
9	E-Vehicle Assembly and Service Technology	4
10	Robotics	4
11	Poultry Farming	4
12	CNC Programming (CAM)	4
13	Design Supervising Wooden and Modular Furniture	4

#### Value Added courses approved

value Auu	ed courses approve	
	Course Title	Credit
		30 Hours
1	LSD-2	30 Hours
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	
	Self defence for Girls	30 Hours
3		30 Hours
4	Digital Marketing	30 Hours
5	Bio-fertilizer	30 Hours
6	Gender Issues	30 Hours
7	Solid Waste Management	-
8	Smart Agriculture	30 Hours
		30 Hours
9	Adobe Tools	

CENTURION UNIVERSITY OF TECHNOLOGY AND MANAGEMENT SCHOOL OF MANAGEMENT Board of Studies Meeting (Bhubanesware Carry Date: 12th June 2017 Time: 10:30 AM Venue: Bhubaneowar Campus. Members Present 1) Dr. Haubardhu Parda, vc, win Dr. Smita Mistra Panda, Director Research 3) Dr. Anita Patra, Legistra, WTM Dr. Ashok Kumar Mohanty Empert Mr. Mathew Anthony Confect inwelwice Mr. Sukanta Parida, GM, ICA University Alliance Dr. Prasanta Kumas Mohanly, Dean, Academic 2) Prot. Rashmi Ranjan Pavida, Pap Coordinator, Son a) Prot. Umaharta Nayak, Faculty, Som 10) Prot. Ansuman Jena Pho faculty Som 11) Prot. Bibhurardini Das, Phd, Faulty, Som 12) Prot. Shi Sanhar Das, Faculty, song 13) Prot. K.V.D Preakash, Dean, SOM

\* BBA and B. com (ICA): The whole course was discussed and was approved by all members.

\* MBA (Data Analyters): 5 subjects were added to the existing cowise structure no changes were proposed bon any existing courses.

\* MBA (Hospital Management): New electrics on Hospital maragement was introduced and was appro The meeting came to an end abter extending a vote of thanks to all present members.

Signature of Members Present.

most 10/08/12 Shi Santar Das 12/6/17.

Asorein's

Inita Mishra 12 June 17

12/6/17



#### School of Paramedics and Allied Health Sciences

Date: 12/06/2017

#### MINUTES OF BOARD OF STUDIES MEETING held on 12/06/2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 AM

Board of Studies (BoS) meeting for School of Paramedics and Allied Health Sciences (SoPAHS) was held on 12/06/2017 at 11 AM in the Board Room, CUTM Bhubaneswar. The following are the board members:

- 1. Dr. P. C. Mohapatra, Ophthalmologist
- 2. Dr. Bachaspati Dash, Radiologist
- 3. Dr. Debasish Sahoo, MD, Microbiology
- 4. Dr. Ashish Kumar Sen, Adjunct Professor, SoPAHS
- 5. Prof. Sunil Kumar Jha, Dean, SoPAHS
- 6. Mr. Vivek Kumar Sinha, Lecturer of Optometry
- 7. Ms. Priyanka Parbin, Lecturer of Microbiology
- 8. Ms. Sansita Mohakud, Lecturer

All the members were welcomed to the session by the Chairperson and were briefed regarding the purpose of the meeting. Thereafter, the Dean of SoPAHS presented on the achievements of the department in terms of academics and infrastructure.

Following are the programs offered by SoPAHS:

MSc Medical Laboratory Technology (MSc MLT)

MSc Applied and Clinical Microbiology (MSc CMB)

BSc Medical Laboratory Technology (BSc MLT)

BSc Clinical Microbiology (BSc CMB)

BSc Radiology and Imaging Technology (BSc RIT)

BSc Optometry (BSc Optom)

Agenda of the meeting:

Agenda 1: The minutes of the last meeting of the BoS held on 02/06/2016 were confirmed.

Agenda 2: Discussion and approval on the content of syllabus for various courses of SoPAHS.



The Dean of SoPAHS presented on the feedback received on the curriculum of the school, from various stakeholders. Further, he presented the syllabus for incorporation for the Academic session 2017-18.

- The syllabus was highly appreciated as the courses were relevant to the need of the health industry.
- The Board approved the updation of the courses, wherein the syllabus for 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> semester of BSc MLT and BSc RIT were approved and syllabus for 3rd and 4th semester of MSc MLT and MSc CMB were approved by the board.
- The new syllabus for BSc CMB was approved by the committee.
- List of new courses are added in Annexure A.
- The syllabus for BSc Optometry was approved without any further revision.
- It was discussed during the meeting that the core courses should focus on clinical orientation.

The Dean, SoPAHS extended sincere thanks to all the members of the Board.

The meeting ended with a vote of thanks to the Chair.

RAHSar Jha

DEAN

chool of Paramedics & Allied Health Sciences enturion University of Technology & Management Bhubaneswar, Odisha-752050

Dean, Academics

Dean - Academic

Power

Centurion University of Technology & Management Bhubaneswar, Khurda, Odisha-752050



SI. No	course Title	Type (Skill/ Employability/ Entrepreneurship)	Credit
	BSc RIT		
1	Applied Radiation Physics & Radiation Protection	Employability	4
2	Advanced Radiographic Techniques	Employability	4
3	Special Radiographic Technique & Procedures	Employability	4
4	Basic Equipments In Radiodiagnosis	Entrepreneurship	4
5	Medical Imaging Lab II	Entrepreneurship	4
6	Communicative Practice Laboratory 2	Skill	2
7	Radiotherapy & Branchy Therapy Techniques In Malignant And Non Malignant Disease	Employability	4
8	Applied Equipments Of Radio Diagnosis	Entrepreneurship	4
9	Interventional Radiology & Drug Used In Diagnostic Radiology	Employability	4
10	Human Values & Professional Ethics	Skill	4
11	Basic Computer And Information	Skill	4
12	Science Hospital Posting-Medical Imaging Lab	Entrepreneurship	4
13	III Basic Of X-Ray and Digital X-Ray	Employability	4
14	Computerized Tomography (CT	Employability	4
	Scanning) Method and Procedure	Employability	4
15 16	Basic Of Magnetic Resonance Imaging Orientation In Clinical Sciences Course	Employability	4
	Contents	Entrepreneurship	4
.7	Medical Imaging Lab IV		4
.8	Medical Law and Ethics	Skill	12
.9	Project	Skill	12
0	Internship	Skill	12
	BSc MLT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4
	Immunology	Employability	
	Applied Hematology	Employability	4
	Molecular Biology	Employability	4
-	Basic Histology	Entrepreneurship	4
	Community Practice Laboratory- 2	Skill	2
- 1	Immunology, Histology Lab	Skill	4



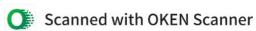
	University		
7	Parasitology	Employability	4
	Analytical Biochemistry	Entrepreneurship	2
8	Advance Hematology	Entrepreneurship	4
9	Immunopathology	Employability	4
10	Human Values & Professional Ethics	Skill	4
11	Basic Computers and Information	Skill	4
12	Science		
13	Biochemistry lab	Entrepreneurship	4
14	Transfusion Medicine	Employability	4
15	Medical Laboratory Management	Enterpreunership	4
	Immunopathology	Employability	4
16	Introduction To Quality and Patient	Employability	4
17	Safety		
18	Medical Law and Ethics	Skill	4
19	Mycology & Virology	Employability	4
	Mycology & Virology Lab	Skill	4
20	Project	Skill	12
21	Internship	Skill	12
22	MSc MLT		
	Immunology, Bacterial Serology &	Employability	4
1	Parasitology	,	1
2	Turdonoregy	Entrepreneurship	4
_	Clinical Hematology	Employability	4
3	D' de mietre	Employability	
	Biochemistry	Entrepreneurship	4
4	Histology		4
5		Skill	7
	Research Methodology	Skill	2
6	Communicative Practice	JKIII	
	Laboratory-II		
-	Laporatory	Employability	4
7	Immunology, Biochemistry &		
	Histopathology Lab		12
8		Skill	12
3 2	Project	Skill	12
9		SKIII	
	Internship		
	MSc CMB		
1		Employability	4
1	Immunology & Virology		4
2		Entrepreneurship	4
	Diagnostic Bacteriology	F1	4
3		Employability	
	Biochemistry	1:	4
1		Entrepreneurship	



	University		
5	Research Methodology	Skill	4
6		Skill	2
	Communicative Practice Laboratory-II	Entrepreneurship	4
7	Immunology, Histopathology &		
	Biochemistry Lab	Skill	12
8	Project	SKIII	
9	Trojeci	Skill	12
	Internship		
	BSc CMB		4
1	O. II Biology	Employability	4
2	Introductory Cell Biology	Employability	4
2	Human Anatomy & Physiology		4
3	D. C. H matalogy	Entrepreneurship	4
1	Basic Haematology	Entrepreneurship	4
4	Instrumentation & Techniques		4
5	Human Anatomy, Physiology &	Entrepreneurship	,
	Haematology Practical		4
6		Skill	4
	Environmental Science	Skill	2
7	Foundations of English		
	Communication	Employability	4
8	General Microbiology	Етрюуаыту	
9		Entrepreneurship	4
	Clinical Biochemistry	Entrepreneurship	4
10	Clinical Pathology & Diagnosis	Entreprendusing	
11		Entrepreneurship	4
11	Clinical Pathology, Biochemistry		
li .	&Microbiology Practical	Employability	4
12	Immunology	Zmproy atomy	
13		Employability	4
	Systemic Bacteriology	Employability	4
14	Molecular Biology	Етрюуавту	
15		Employability	4
	Systemic Virology & Mycology	Ckill	2
16	Communicative Practice	Skill	
	Laboratory- II		
17		Skill	4
N E	Bacteriology, Virology &Mycology Practical		
18	i-ractical	Employability	4
10	Public Heath Microbiology		



	Universi	TY	
19	Pharmaceutical Microbiology	Employability	4
20		Entrepreneurship	4
	Industrial Microbiology		
21	Biochemistry	Employability	4
22	Basic Computer & Information technique	Employability	4
23	Industrial, Public Health Microbiology & Biochemistry Lab.	Skill	4
24	Epidemiology	Employability	4
25	Diagnostic Bacteriology	Employability	4
26	Diagnostic Virology	Employability	4
27	Diagnostic Mycology	Employability	4
28	Diagnostic Parasitology	Employability	4
29	Research Methodology	Skill	4
30	Epidemiology & Diagnosis microbiology lab	Skill	4
31	Project	Skill	12
32	Internship	Skill	12



Sluo	. NAME	PLACE	SIGNATURE
	Dr. P. e Mahapatra	PLACE CUTM, BASR	12/06/13
۵	Dr. Bachaspati Dach	CUTM, BBSR.	fress. 17
3.	Dr. Ashish ku. Sen	CUIM, BASR	Mrs -
4.	Sunt Ru. Tha	CUTM, BBSR	ALEMAN,
5.	Dr. Debashish Sahoo	CUTM, BBSR	Dela
6.	Viver ku. Sinha	CUTM, BOSR	12/4/17
r <u>f</u> .	Preiganka Parkin	CUTM, BBSR	That Gir
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8.	Scensita Mohakud	CUTM, BBSR	Suchard 17
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#### School of Pharmacy and Life Sciences

Date: 12.06.2017

#### MINUTES OF BOARD OF STUDIES MEETING held on 12.06.2017

Venue: Board Room, CUTM, Bhubaneswar

Time: 11.00 a.m.

The Board of Studies (BoS) meeting of School of Pharmacy and Life Sciences(SoPLS) was held on 12.06.2017 at 11 a.m. in the Board Room, CUTM Bhubaneswar. The following are the board members:

- 1. Mr. Mahesh Pattnaik, Director SoPLS
- 2. Mr. Sisir Panigrahi, Director SoPLS
- 3. Dr. Gurudutta Pattnaik, Dean SoPLS
- 4. Dr. Amulyaratna Behera, Professor SoPLS
- 5. Dr. Susant Kumar Sahu, HOD UDPS, Utkal University

The Chairperson welcomed all members of the Board and briefly outlined the purpose of the meeting. Thereafter, the Dean of the School of Pharmacy and Life Sciences presented the achievements and improvements of the department in the areas of academics, research, consultancy and infrastructure.

The following agenda items were taken up subsequently:

#### Agenda 1: The minutes of the last meeting of the BoS held on 16.06.2016 were confirmed.

#### Agenda 2: Course Curriculum Revision with implementation of elective course systems

- Draft rules & syllabus for the B. Pharm course framed under the regulation 6,7 & 8 of the Bachelor of Pharmacy course 2014 by Pharmacy Council of India, New Delhi is here by discussed critically in presence of External Expert and it is decided that Principal SoPLS, CUTM is authorized to modify the courses regulation in case of any urgency, if required. deliverable.
- PCI, the apex affiliating body of Government of India, based upon different suggestions, review comments from different academic, industry and research have instructed to all the institutions throughout the India to adhere the new revised unified syllabus throughout the country in order to produce trend skilled man power.
- Following points are discussed: -
- 1. Short title & commencement.
- 2. Minimum qualification for admission.
- 3. Duration of Programme.
- 4. Medium of Instruction & exam.
- 5. Working days in each semester.
- 6. Attendance and progress.
- 7. Programme credit structure Minimum Credit Point required is 208
- 8. Academic work.
- 9. Course of study.
- 10. Program committee.



- 11. Examination & Assessment.
- 12. Few subjects carry 25 marks for internal assessment and 75 marks for end semester examination, few carry 15 as internal and 35 for external and some carries 10 internal and 15 for external examination.
- 13. Some subjects are included as Non university examination i.e. English & Biology.
- 14. Promotion and award of grade.
- 15. Minimum 50% mark is required in each subject which includes both internal and external exam to pass in the respective subject.
- 16. Carry forward of marks.
- 17. Improvement of Internal assessment.
- 18. Academic progression.
- 19. Grading of performance

% of mark obtained	Grade	Grade point	Performance
90.00 - 100	0	10	Outstanding
80.00-89.99	A	9	Excellent
70.00-79.99	В	8	Good
60.00-69.99	С	7	Fair
50.00-59.99	D	6	Average
<50	F	0	Fail
Absent	AB	0	Fail

Whereas E grade is completely obliterated.

#### 20. Project work.

• The Board approved the revision of the syllaubus in keeping with the latest requirements of the industry.

## Agenda 3: Type of curriculum: CBCS/Elective/NEP: ELECTIVE

Implementation of 2 Elective courses (Total 8 Credits) in B.Pharm 8<sup>th</sup> semester.

Any Other Points: Extension of Pharmacy courses at Balangir and Rayagada campus.

The Board of Studies after due deliberation approved to impart Pharmacy courses at its constituent campuses such as Balangir and Rayagada camps.

The Dean, School of Pharmacy and Life Sciences extended sincere thanks to all members of the Board.

The meeting ended with a vote of thanks to the Chair.

Dean, SoPLS

DEAN
SCHOOL OF PHARMACY AND LIFE SCIENCES
CUTM.BHUBANESWAR

Dean, Academics

Dean - Academic Centurion University of Technology & Management Bhubaneswar, Khurda. Odisha-752050



#### Additional Documents Appendix 1

#### List of new courses:

SI. No	Course Title	Type(Skill/Employability /Entrepreneurship	Credit
1	Human Anatomy and Physiology I— Theory	Skill-Employability	4
2	Pharmaceutical Analysis I – Theory	Skill-Employability	4
3	Pharmaceutics I – Theory	Skill-Employability	4
4	Pharmaceutical Inorganic Chemistry – Theory	Employability	4
5	Communication skills – Theory *	Skill	2
6	Remedial Biology – Theory*	Employability	2
7	Remedial Mathematics – Theory*	Employability	2
8	Human Anatomy and Physiology – Practical	Skill-Employability	2
9	Pharmaceutical Analysis I – Practical	Skill-Employability	2
10	Pharmaceutics I – Practical	Skill-Employability	2
11	Pharmaceutical Inorganic Chemistry – Practical	Employability	2
12	Communication skills – Practical*	Skill	1
13	Remedial Biology – Practical*	Employability	1
14	Human Anatomy and Physiology II – Theory	Skill-Employability	4
15	Pharmaceutical Organic Chemistry I  - Theory	Skill-Employability	4
16	Biochemistry – Theory	Employability	4
17	Pathophysiology – Theory	Skill	4
18	Computer Applications in Pharmacy  – Theory *	Skill	3
19	Environmental sciences - Theory *	Employability	3
20	Human Anatomy and Physiology II – Practical	Skill-Employability	2
21	Pharmaceutical Organic Chemistry I— Practical	Employability	2
22	Biochemistry – Practical	Skill-Employability	2
23	Computer Applications in Pharmacy – Practical*	Skill-Employability	1
24	Pharmaceutical Organic Chemistry II  – Theory	Skill-Employability	4
25	Physical Pharmaceutics I – Theory	Skill-Employability	4
26	Pharmaceutical Microbiology – Theory	Skill-Employability	4
27	Pharmaceutical Engineering – Theory	Skill-Employability	4
28	Pharmaceutical Organic Chemistry II  - Practical	Employability	2
29	Physical Pharmaceutics I – Practical	Employability	2
30	Pharmaceutical Microbiology – Practical	Skill-Employability	2
31	Pharmaceutical Engineering – Practical	Skill -Employability- Entrepreneurship	2
32	Pharmaceutical Organic Chemistry III- Theory	Skill-Employability	4



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33	Medicinal Chemistry I – Theory	Employability	4
34	Physical Pharmaceutics II – Theory	Skill –Employability	4
35	Pharmacology I – Theory	Skill –Employability	4
36	Pharmacognosy and Phytochemistry I– Theory	Skill	4
37	Medicinal Chemistry I – Practical	Employability	2
38	Physical Pharmaceutics II – Practical	Skill –Employability	2
39	Pharmacology I – Practical	Skill –Employability	2
40	Pharmacognosy and Phytochemistry I  — Practical	Skill –Employability	2
41	Medicinal Chemistry II – Theory	Employability	4
42	Industrial Pharmacy- I Theory	Skill –Employability	4
43	Pharmacology II – Theory	Skill –Employability	4
44	Pharmacognosy and Phytochemistry II– Theory	Skill –Employability	4
45	Pharmaceutical Jurisprudence – Theory	Employability	4
46		Skill -Employability-	2
- COLUMNIA AND AND AND AND AND AND AND AND AND AN	Industrial Pharmacy I – Practical	Entrepreneurship	
47	Pharmacology II – Practical	Skill –Employability	2
48	Pharmacognosy and Phytochemistry II – Practical	Skill –Employability	2
49	Medicinal Chemistry III – Theory	Employability	4
50	Pharmacology III – Theory	Skill –Employability	4
51	Herbal Drug Technology – Theory	Skill -Employability	4
52	Biopharmaceutics and Pharmacokinetics – Theory	Skill –Employability	4
53	Pharmaceutical Biotechnology – Theory	Employability	
54	Quality Assurance –Theory	Skill -Employability	4
55	Medicinal chemistry III – Practical	Employability	2
56	Pharmacology III – Practical	Skill –Employa	2
57	Herbal Drug Technology – Practical	Skill -Employability- Entrepreneurship	2
58	Instrumental Methods of Analysis – Theory	Skill –Employability	4
59	Industrial Pharmacy –II Theory	Skill -Employability	4
60	Pharmacy Practice – Theory	Skill –Employability	4
61	Novel Drug Delivery System – Theory	Skill –Employability	4
62	Instrumental Methods of Analysis – Practical	Skill –Employability	2
63	Practice School*	Employability	6
64	Biostatistics and Research Methodology	Skill	4
65	Social and Preventive Pharmacy	Skill -Employability	4
66	Pharmaceutical Marketing ( ELECTIVE)	Skill -Employability- Entrepreneurship	4
67	Pharmaceutical Regulatory Science ( ELECTIVE)	Skill -Employability- Entrepreneurship	4
68	Project Work	Skill -Employability- Entrepreneurship	6



## Elective subjects in B.Pharm:

Course Code	Name of the Course	No. hours	of	Tutorial	Credit Points
BPHT4203	Pharma Marketing Management				
BPHT4204	Pharmaceutical Regulatory Science				
BPHT4205	Pharmacovigilance				
BPHT4206	Quality Control and Standardizations of Herbals				
BPHT4207	Computer Aided Drug Design	3+3=6		1+1=2	4+4=8
BPHT4208	Cell and Molecular Biology				
BPHT4209	Cosmetic Science				
BPHL4201	Experimental Pharmacology				
BPHL4202	Advanced Instrumentation Techniques				
BPHT4212	Dietary Supplements and Nutraceutical				



## Appendix 3

## Skill Courses approved by university

Sl. No	Course Title	Credit
1	Apparel Production & Marketing	4
2	Line Stitching Supervising	4
3	Apparel Production	4
4	Light Motor Vehicle Driving	4
5	Fork Lift Operation	4
6	Heavy Vehicle Technology	4
7	Two Wheeler Service Technology	4
8	Four Wheeler Service Technology	4
9	E-Vehicle Assembly and Service Technology	4
10	Robotics	4
11	Poultry Farming	4
12	CNC Programming (CAM)	4
13	Design Supervising	4
	Wooden and Modular Furniture	



## Value Added courses offered by university

Sl. No	Course Title	Hrs. of input
1	LSD-2	30 Hours
2	Development of Concentration and Memory- Application of 'Raja Yoga' in daily life	30 Hours
3	Self defence for Girls	30 Hours
4	Digital Marketing	30 Hours
5	Bio-fertilizer	30 Hours
6	Gender Issues	30 Hours
7	Solid Waste Management	30 Hours
8	Smart Agriculture	30 Hours
9	Adobe Tools	30 Hours

\* The MSc forensic Scrence course is going to be launched from the academic year 2017-18.

\* The stactulty members of GFSU have Visited the campus and agreed discussed the requirement.

\* The syllabor, course currienlinn credit point. Grade aut as per CBCS system ave discussed and finalized.

Members Present: External member

Internal Member

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Dr. S. K. Sahn '
Reader & Head, UDPS.

Dr Gurndulta Pattneik Principal, SPLS.

UfKal Univ.

Dr. 42. Behera

SISIP C. C. Behera